IAPOLLO HD 32

I-APOLLOS-32

32 Channel 2U Standalone DVR

User's Manual

V1.0 09 / 2013

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Welcome

Thank you for purchasing the **iApollo HD 32 DVR**

This user's manual is designed to be a reference tool for the installation and operation of your system.

Here you can find information about the corresponding DVR's features and functions, as well as a detailed menu tree.

Before installation and operation please read the following safeguards and warnings carefully!

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Important Safeguards and Warnings

1．Electrical safety

- All installation and operation here should conform to your local electrical safety codes.
- We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.

2．Transportation security

- Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.

3．Installation

- Keep upwards. Handle with care.
- Do not apply power to the DVR before completing installation.
- Do not place objects on the DVR

4．Qualified engineers needed

- All the examination and repair work should be done by the qualified service engineers.
- We are not liable for any problems caused by unauthorized modifications or attempted repair.

5．Environment

- The DVR should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc.
- This series product shall be transported, storage and used in the environment ranging from 0℃ to 55 ℃

6. Accessories

- Be sure to use all the accessories recommended by manufacturer.
- Before installation, please open the package and check all the components are included.
- Contact your local retailer ASAP if something is broken in your package.

7. Lithium battery

- Improper battery use may result in fire, explosion, or personal injury!
- When replace the battery, please make sure you are using the same model!

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1 FEATURES AND SPECIFICATIONS

1.1 Overview

This series product is an excellent digital monitor product designed for security field. It adopts embedded Linux OS to maintain reliable operation. Popular H.264 compression algorithm and G.711 audio compression technology gives you high quality and a low a bandwidth bit stream. Unique frame by frame play function is suitable for detail analysis. It has various functions such as record, playback, monitor simultaneously and can guarantee audio video synchronisation. This series product uses advanced technology to provide a strong network data transmission function.

This series device adopts embedded design to achieve high security and reliability. It can work at the local end, and at the same time, when connecting it to the professional surveillance software (PSS), it can connect to security network so that you can you are able to use the remote monitor function.

This DVR can be widely used in various security scenarios, e.g. pr

1.2 Features

This series product has the following features:

- **Real-time monitor:** It has analog output port, VGA port and HDMI port. You can use monitor or displayer to realize surveillance function. System supports TV/VGA/HDMI output at the same time.
- **Storage function:** Special data format to guarantee data security and can avoid vicious data modification.
- **Compression format:** Support multiple-channel audio and video. An independent hardware decodes the audio and video signal from each channel to maintain video and audio synchronization.
- **Backup function:** Support backup operation via USB port (such as flash disk, portable HDD, burner).Client-end user can download the file to local HDD to backup via network.
- **Record playback function:** Support each channel real-time record independently, and at the same time it can support search, forward play, network monitor, record search, download and etc.Support various playback modes: slow play, fast play, backward play and frame by frame play.Support time title overlay so that you can view event accurate occurred time Support specified zone enlargement.
- **Network operation:** Support network remote real-time monitor, remote record search and remote PTZ control.

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- **Alarm activation function:** Several relay alarm outputs to realize alarm activation and on-site light control. The alarm input port and output has the protection circuit to guarantee device safety.

- **Communication port:** RS485 port can realize alarm input and PTZ control. RS232 port can connect to keyboard to realize central control, and can also connect to PC COM to upgrade system and realize maintenance, and matrix control. Standard Ethernet port can realize network access function. Dual Ethernet ports support configuration modes such as multiple access, Fault-tolerance and load balancing.

- **PTZ control:** Supports RS485 PTZ decoding and various decode protocols to allow the PTZ to control the speed dome.

- **Intelligent operation:** Mouse operation function**.** In the menu, support copy and paste setup function

- **UPnP:** It is to establish the mapping relationship between the LAN and the WAN via the UPnP protocol.

Slight function differences may be found due to different series.

1.3 Specifications

	Parameter	**32 - channel**
System	Main Processor	High-performance industrial embedded micro controller
	OS	Embedded LINUX
	System Resources	Multiplex operations: Multiple-channel record, multiple-channel playback and network operation simultaneously
	Interface	User-friendly graphical user interface
	Input Devices	Front panel, USB mouse, remote control
	Input Method	Arabic number, English character, donation and extension Chinese (optional)
	Shortcut Function	Copy/paste operation, USB mouse right-key shortcut menu, double click USB mouse to switch screen.
Compression Standard	Video Compression	H.264
	Audio Compression	G.711A
Video monitor	Video Input	32-CH composite video input: (NTSC/PAL) BNC ($1.0V_{P-P,}$ 75Ω)
	Video Output	1-ch PAL/NTSC, BNC (1.0VP- P, 75Ω) composite video signal output. 1-ch VGA output. 1-ch HDMI output. Support TV/VGA/HDMI video output at the same time.
	Video Standard	PAL (625 line, 50f/s), NTSC (525 line, 60f/s)

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	Record Speed	Real-time Mode: PAL 1f/s to 25f/s per channel and NTSC 1f/s to 30f/s per channel
	Video Partition	1/4/9 /16 /25/36 windows
	Monitor Touring	Support monitor tour functions such as alarm, motion detection, and schedule auto control.
	Resolution (PAL/NTSC)	PAL/NTSC Real-time monitor： D1 704×576/704×480
		Playback： D1 704×576/704×480 (6f/s, when other channels' resolution are all CIF, 1st /9th /17th /25th -channel can support 25f/s.) , CIF 352×288/ 352×240 , QCIF 176×144/176×120
		Support dual streams. Extra stream resolution: QCIF 176×144/176×120
	Image Quality	6-level image quality (Adjustable)
	Privacy mask	Support one privacy mask of user-defined size in full screen. Support max 4 zones.
	Image Information	Channel information, time information and privacy mask zone.
	TV Adjust	Adjust TV output zone suitable to anamorphic video.
	Channel Lock	Cover secret channel with black screen though system is encoding normally. Screen-lock function to prevent unauthorized user seeing secret video.
	Channel Information	Channel name, recording status, screen lock status, video loss status and motion detection status are shown on the bottom left of display screen.
	Color Configuration	Hue, brightness, contrast, saturation and gain setup for each channel.
Audio	Audio Input	The 1st to the 16th channel, 200-2000mV 10KΩ（BNC）
	Audio Output	1-ch audio output 200-3000mv 5KΩ(BNC)
	Bidirectional Audio	1-ch audio talk input 200-3000mv 10KΩ（BNC） 1-ch audio talk output 200-3000mv 5KΩ(BNC)
Hard disk	Hard Disk	8 built-in SATA port. Support 8 HDDs.
	Hard Disk Occupation	Audio：PCM 28.8MByte/h Video：56-900MByte/h
Record and playback	Recording Mode	Manual recording, motion detection recording, schedule recording and alarm recording Priority: Manual recording> alarm recording>motion detection recording>schedule recording.
	Recording Length	1 to 120 minutes single record duration (Default setup is 60 minutes)
	Playback Repeat Way	When hard disk is full, system can overwrite previous video file.
	Record Search	Various search engines such as time, type and channel.
	Playback Mode	Various fast play, slow play speeds, manual frame by frame playback and reverse play mode.

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	Various File Switch Ways	Can switch to previous or next file or any file in current play list. Can switch to file on other channel of the same time. (If there is a file) Support file continuous play, when a file is end system auto plays the next file in the current channel
	Multi-channel Playback	There are three playback modes: 4-channel, 1-16 channel, 17-32 channel. In 4-ch playback mode, you can select the 1/2/3/4-ch playback according to your requirement. In 16-channel mode, the system can playback 1 to 16 (the 1st –the 16th) channels at the same time. In 17-32 channel playback mode, the system can playback 17 to 32 (the 17th –the 32nd) channels at the same time.
	Window Zoom	Switch between self-adaptive screen/full screen when playback
	Partial Enlargement	When in one-window full-screen playback mode, you can select any zone to activate partial enlargement function.
Backup function	Backup Mode	HDD backup
		Support peripheral USB backup device. (Flash disk, portable disk, USB burner and etc.)
		Support peripheral eSATA backup device.
		Support network download and backup
Network Function	Network control	View monitor channel remotely.
		DVR configuration through client-end and web browser
		Upgrade via client or browser to realize remote maintenance.
		View alarm information such as external alarm, motion detection and video loss via client.
		Support network PTZ lens control
		File download backup and playback
		Multiple devices share information via corresponding software such as professional surveillance software (PSS)
		Duplex transparent COM
		Network alarm input and output
		Bidirectional audio.
Motion Detection and Alarm	Motion Detection	Zone setup: support 396((PAL 22×18, NTSC 22×15)) detection zones. Various sensitivity levels. Alarm can activate record or external alarm or screen message prompt.
	Video Loss	Alarm can activate external alarm or screen message prompt.
	External Alarm	Support record activation function or activate external alarm or screen message in specified period.
	Manual Alarm Control	Enable or disable alarm input channel Support analog alarm signal to specific alarm output channel.
	Alarm Input	16-ch alarm input（You can set normal open or normal close type to select the alarm type.）
	Alarm Output	6-channel relay output, including one controllable DC +12V output port.
	Alarm Relay	30VDC 2A，125VAC 1A（activation alarm）
Interface	USB Interface	2 USB 2.0 ports.
	Network connection	RJ45 10M/100M self-adaptable Ethernet port
	RS485	PTZ control port Support various PTZ control protocols.
	RS232	Ordinary COM (Debug),keyboard connection and transparent serial port(COM input and output via network)
System Information	Hard Disk Information	Display HDD current status

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	Data Stream Statistics	Data stream statistics for each channel (in wave mode)
	Log statistics	Backup to 1024 log files. Support various search engines such as time and type.
	Version	Display version information: channel amount, alarm input and output amount, system version and release date.
	On-line user	Display current on-line user
User Management	User Management	Multi-lever user management; various management modes Integrated management for local user, serial port user and network user. Configurable user power.
		Support user /group and its corresponding rights modification. No limit to the user or group amount.
	Password Authentication	Password modification Administrator can modify other user's password.
		Account lock strategy Five times login failure in thirty minutes may result in account lock.
Upgrade		Web browser, client-end and update tool.
Login, Logout and Shutdown		Password login protection to guarantee safety
		User-friendly interface when login. Provide the following options: Logout /shutdown/ restart.
		Right authentication when shut down to make sure only those proper people can turn off DVR
General Parameter	Power	AC90~264V 50+2% Hz （Max 75W）
	Power Consumption	13W (Exclude HDD)
	Working Temperature	0℃－＋55℃
	Working Humidity	10%－90%
	Air Pressure	86kpa－106kpa
	Dimension	2U standard industrial case. 440(W) x450 (D) x89mm(H)
	Weight	5.8-6.8KG(Exclude HDD)
	Installation Mode	Desktop/rack installation

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2 Overview and Controls

This section provides information about front panel and rear panel. When you install this series DVR for the first time, please refer to this part first.

2.1 Front Panel

The front panel is shown as shown in Figure 2-1 below.

Figure 2-1

Please refer to the following sheet for front panel button information.

Name	Icon	Function
Power button		Power button, press this button for three seconds to boot up or shut down DVR.
Number button	0-9	Input Arabic number Switch channel
Input number more than 10	-/--	If you want to input a number more than 10, please click this button and then input.
Shift		In textbox, click this button to switch between numeral, English(Small/Capitalized),donation and etc.
		Enable or disable tour.
Up/ Down	▲、▼	Activate current control, modify setup, and then move up and down.
		Increase/decrease numeral.
		Assistant function such as PTZ menu.
Left/ Right	◄ ►	Shift current activated control, and then move left and right.
		When playback, click these buttons to control playback bar.
ESC	ESC	Go to previous menu, or cancel current operation.
		When playback, click it to restore real-time monitor mode.
	ENTER	Confirm current operation

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Enter		Go to default button
		Go to menu
Record	REC	Manually stop/start recording, working with direction keys or numeral keys to select the recording channel.
Slow play		Multiple slow play speeds or normal playback.
Assistant	Fn	One-window monitor mode, click this button to display assistant function: PTZ control and image color.
		Backspace function: in numeral control or text control, press it for 1.5seconds to delete the previous character before the cursor.
		In motion detection setup, working with Fn and direction keys to realize setup.
		In text mode, click it to switch between numeral, English character(small/capitalized) and etc.
		In HDD management interface, you can click it to switch HDD record information and other information (Menu prompt)
		Realize other special functions.
Fast play		Various fast speeds and normal playback.
Play previous		In playback mode, playback the previous video
Reverse/Pause		In normal playback or pause mode, click this button to reverse playback In reverse playback, click this button to pause playback.
Play Next		In playback mode, playback the next video In menu setup, go to down ward of the dropdown list.
Play/Pause		In normal playback click this button to pause playback In pause mode, click this button to resume playback.
Window switch	**Mult**	Click it to switch one-window/multiple-window.
Shuttle(outer ring)		In real-time monitor mode it works as left/right direction key. Playback mode, counter clockwise to forward and clock wise to backward.
Jog(inner dial)		Up/down direction key. Playback mode, turn the inner dial to realized frame by frame playback. (Only applies to some special versions.)
USB port		To connect USB storage device, USB mouse.

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Remote control indication light	ACT	Remote control indication light
Status indication light	Status	If there is Fn indication light, current status indication light is null.
Power indication light	PWR	Power indication light
Record light	1-32	**For 4/8/16-channel series** It becomes on when system is recording. **For 32-channel series** When the light flashes slowly, it means the corresponding channel of 1-16 channel is recording now. When the light flashes fast, it means the corresponding channel of 17-32 channel is recording now. When the light becomes on, It means the corresponding 2-channel is recoding now.
IR Receiver	IR	It is to receive the signal from the remote control.

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2.2 Rear Panel

The 32-channel series DVR rear panel is shown as below. See Figure 2-2.

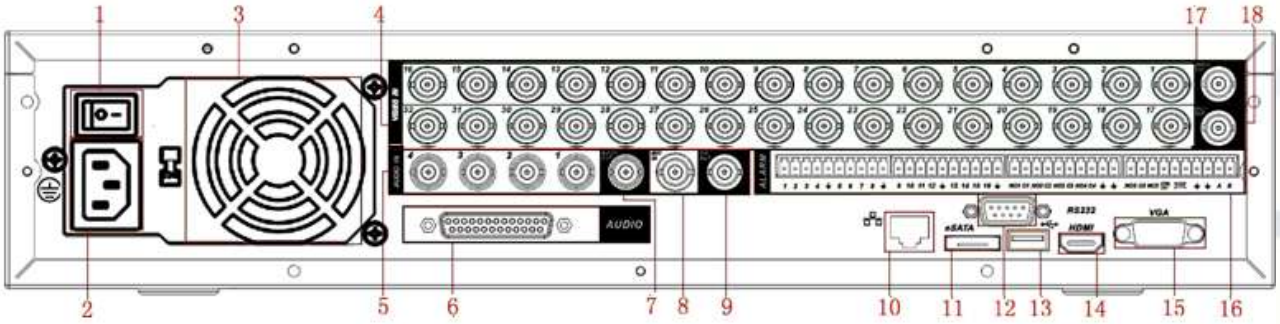

Figure 2-2

Please refer to the following sheet for detailed information:

1	Power button
2	Power input port
3	Fan
4	1-32 channel video output
5	1st to 4th-channel audio input
6	DB25 port (5th to 16th-channel audio input port)
7	Audio output
8	Bidirectional talk input port
9	Bidirectional talk output port
10	Network port
11	eSATA port
12	RS232 port
13	USB port
14	HDMI port
15	Video VGA output
16	Alarm input/alarm output/RS485 port
17	Video CVBS output
18	Video matrix output

When connect the Ethernet port, please use crossover cable to connect the PC and use the straight cable to connect to the switcher or router.

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2.3 Connection Sample

Please refer to Figure 2-3 for connection sample.

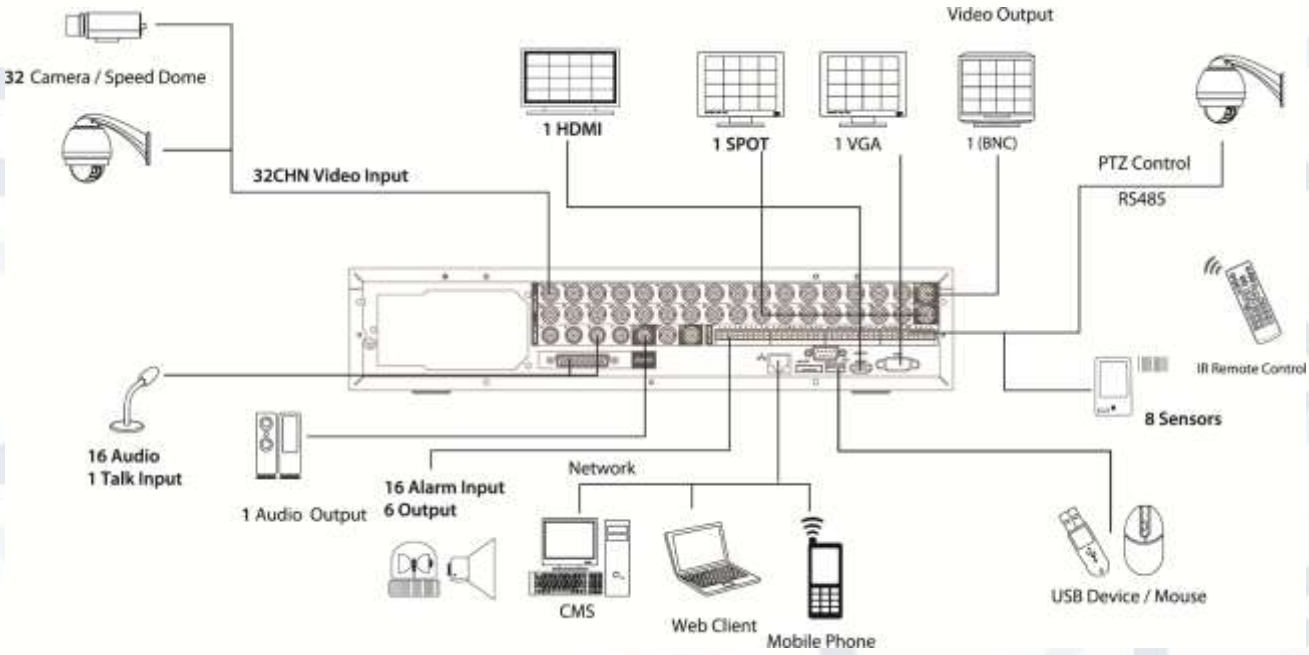

Figure 2-3

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2.4 Mouse Control

<table>
<tr><td rowspan="8">Left click mouse</td><td>System pops up password input dialogue box if you have not logged in.
In real-time monitor mode, you can go to the main menu.</td></tr>
<tr><td>When you have selected one menu item, left click mouse to view menu content.</td></tr>
<tr><td>Implement the control operation.</td></tr>
<tr><td>Modify checkbox or motion detection status.</td></tr>
<tr><td>Click combo box to pop up drop down list</td></tr>
<tr><td>In input box, you can select input methods. Left click the corresponding button on the panel you can input numeral/English character (small/capitalized). Here ← stands for backspace button. __ stands for space button.

In English input mode: _stands for input a backspace icon and ← stands for deleting the previous character.

In numeral input mode: _ stands for clear and ← stands for deleting the previous numeral.

When input special sign, you can click corresponding numeral in the front panel to input. For example, click numeral 1 you can input“/” , or you can click the numeral in the on-screen keyboard directly.
 </td></tr>
<tr><td>Double left click mouse</td><td>Implement special control operation such as double click one item in the file list to playback the video.</td></tr>
<tr><td>In multiple-window mode, double left click one channel to view in full-window. Double left click current video again to go back to previous multiple-window mode.</td></tr>
</table>

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Right click mouse	• In real-time monitor mode, pops up shortcut menu: one-window, four-window, nine-window and sixteen-window, Pan/Tilt/Zoom, color setting, search, record, alarm input, alarm output, main menu. • Among which, Pan/Tilt/Zoom and color setting applies for current selected channel. • If you are in multiple-window mode, system automatically switches to the corresponding channel.
	Exit current menu without saving the modification.
Press middle button	In numeral input box: Increase or decrease numeral value.
	Switch the items in the check box.
	Page up or page down
Move mouse	Select current control or move control
Drag mouse	Select motion detection zone
	Select privacy mask zone.

2.5 Virtual Keyboard & Front Panel

2.5.1 Virtual Keyboard

The system supports two input methods: numeral input and English character (small and capitalized) input.

Move the cursor to the text column, the text is shown as blue, input button pops up on the right. Click that button to switch between numeral input and English input (capitalized and small), Use > or < to shift between small character and capitalized character.

2.5.2 Front Panel

Move the cursor to the text column. Click Fn key and use direction keys to select number you wanted. Please click enter button to input.

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3 Installation and Connections

Note: All the installation and operations here should conform to your local electric safety rules.

3.1 Check Unpacked DVR

When you receive the DVR from the forwarding agent, please check whether there is any visible damage. The protective materials used for the package of the DVR can protect most accidental clashes during transportation. Then you can open the box to check the accessories.

Please check the items in accordance with the list. Finally you can remove the protective film of the DVR.

3.2 About Front Panel and Real Panel

The model label in the front panel is very important; please check according to your purchase order.

The label in the rear panel is very important too. Usually we need you to represent the serial number when we provide the service after sales.

3.3 Connecting Power Supply

Please check if the input voltage and device power requirements match or not.

We recommend you use a UPS system to guarantee steady operation and to lengthen DVR and other peripheral equipment's such as cameras operational life span (please visit **www.adata.co.uk** for info on our UPS ranges).

3.4 Connecting Video Input and Output Devices

3.4.1 Connecting Video Input

The video input interface is BNC. The input video format includes: PAL/NTSC BNC（1.0V_{P-P}，75Ω.）.The video signal should comply with your national standards.

The input video signal should have a high SNR, low distortion; low interference, natural color and suitable lightness.

GUARANTEE THE STABILITY AND RELIABILITY OF THE CAMERA SIGNAL

The camera should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc.

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The camera and the DVR should have the same signal grounding to ensure the normal operation of the camera.

GUARANTEE STABILITY AND RELIABILITY OF THE TRANSMISSION LINE

Please use high quality, sound shielded BNC. Please select suitable BNC model according to the transmission distance.

If the distance is too long, you should use twisted pair cable, and you can add video compensation devices or use optical fiber to ensure video quality.

You should keep the video signal away from the strong electromagnetic interference, especially high tension current.

KEEP CONNECTION LUGS WELL CONNECTED

The signal line and shielded wire should be fixed firmly and have a decent connection. Avoid dry joint, lap welding and oxidation

3.4.2 Connecting Video Output

Video output includes a BNC (PAL/NTSC1.0V_{P-P}，75Ω）output, a VGA and HDMI output. System supports BNC, VGA and HDMI output at the same time.

When you are using pc-type monitor please pay attention to the following points:

- To defer aging, do not allow the pc monitor to run for a long time.
- Regular demagnetization will keep device well maintained.
- Keep it away from devices that produce strong electromagnetic interference.

Using a TV as video output device is not a reliable substitution method. You also need to reduce the working hours and control the interference from the power supply and other devices. The low quality TV may result in device damage.

3.5 Connecting Audio Input & Output, Bidirectional Audio

3.5.1 Audio Input

These series of product's audio input port adopt a BNC port. Due to high impedance of audio input, please use active sound pick-up (see Figure 3-1). Audio transmission is similar to video transmission. Try to avoid interference, dry joint, loose contact and it shoul be kept away from high tension current.

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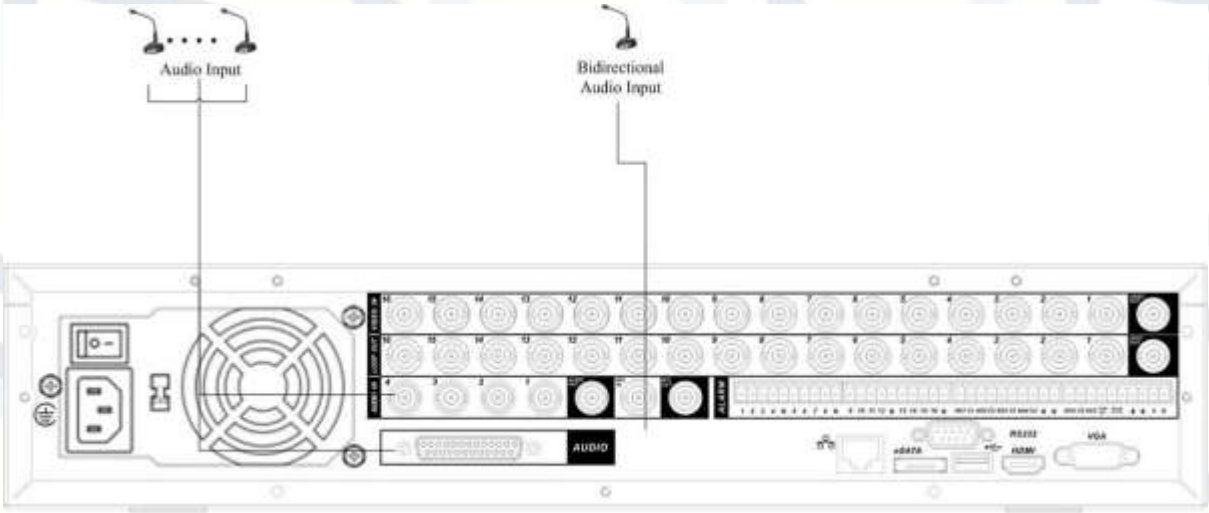

Figure 3-1

3.5.2 Audio Output

The audio output signal parameter is usually over 200mv 1KΩ (BNC). It can directly connect to a low impedance earphone, active sound box or amplifier-drive audio output device.

If the sound box and the pick-up cannot be separated spatially, it is easy to arouse squeaking. In this case you can adopt the following measures:

- Use better sound pick-up with better directing property.
- Reduce the volume of the sound box.
- Using more sound-absorbing materials in decoration can reduce voice echo and improve acoustics environment.
- Adjust the layout to reduce happening of the squeaking.

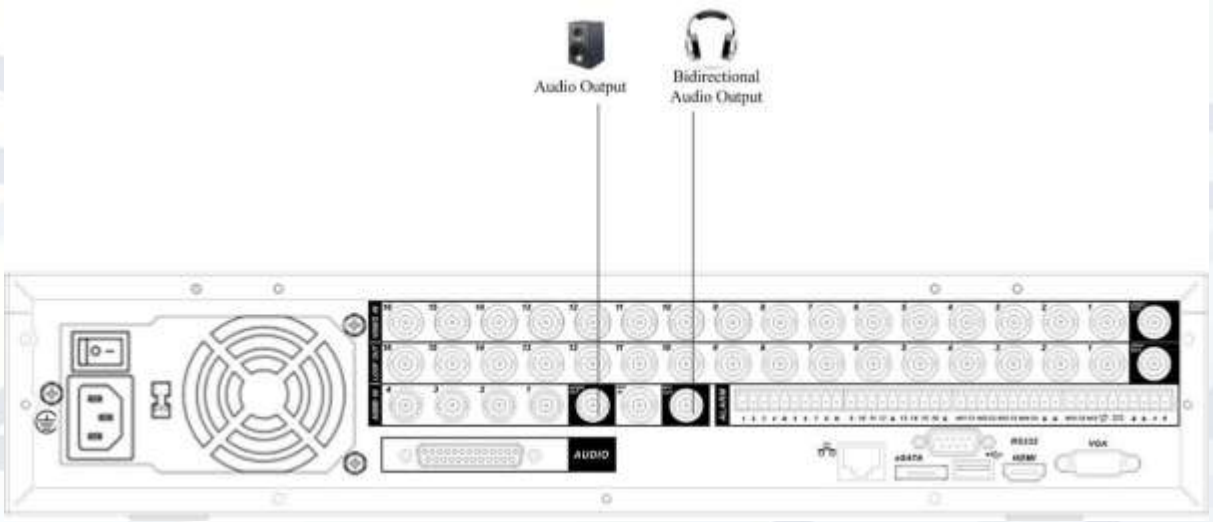

Figure 3-2

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3.6 Alarm Input and Output Connection

Please refer to the following sheet for alarm input and output connection. There are two alarm input types for you to select: normal open (NO) and normal close (NC).

1. Alarm input

a. Please make sure the alarm input mode is grounded alarm input.

b. Grounding signal is needed for alarm input.

c. Alarm input needs the low level voltage signal.

d. Alarm input mode can be either NC (normal Open) or NO (Normal Close)

e. When you are connecting two DVRs or you are connecting one DVR and one other device, please use a relay to separate them,

2. Alarm output

To avoid high current, which may result in relay damage, the alarm output port should not be connected to high power load directly (It should be less than 1Amp). Please use the co-contactor to make sure there is a connection between the alarm output port and the load.

3. How to connect PTZ decoder

a. Ensure the decoder has the same grounding as the DVR, otherwise you may not control the PTZ. Shielded twisted wire is recommended and the shielded layer is used to connect to the grounding.

b. Avoid high voltage. Ensure proper wiring and some surge protection measures.

c. For signal wires that are too long, 120Ω should be parallelly connected between A, B lines on the far end to reduce reflection and to guarantee signal quality.

d. “485 A, B” of DVR cannot parallelly connect with a “485 port” of other device.

e. The voltage between of A,B lines of the decoder should be less than 5V.

4. Please make sure the front-end device has been soundly earthed.

Improper grounding may result in circuit damage.

3.6.1 Alarm Input and Output Details

You can refer to the following sheet for alarm input and output information. For information on the 4 and 8 channel DVR port configurations please use the 16 channel port configuration as a guide.

Important:

Please refer to the specifications for the alarm input and output channel amount. Do not merely count the alarm input and out channel amount according to the ports on the rear panel.

-

The 16-channel interface is shown as in Figure 3-3

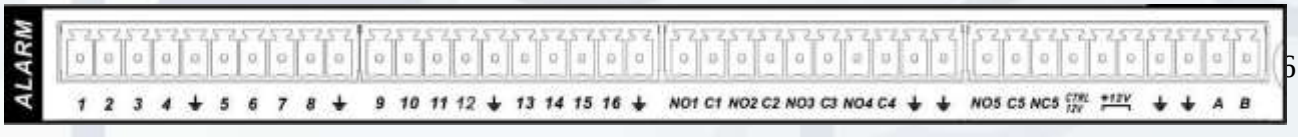

Figure 3-3

You can refer to the following sheet for alarm input and output information:

In the first line, from the left to the right,: 1，2，3，4，5，6，7，8，9，10，11，12，13，14，15，16	ALARM 1 to ALARM 16. The alarm becomes active in low voltage.
In the second line, from the left to the right: NO1 C1， NO2 C2， NO3 C3， NO4 C4， NO5 C5 NC5	The first four are four groups of normal open activation output (on/off button) NO5 C5 NC5 is a group of NO/NC activation output (on/off button)
CTRL 12V	Control power output. You need to close the device power to cancel the alarm.
+12V	It is external power input. Need the peripheral equipment to provide +12V power (below 1A).
⏚	Earth cable.
485 A/B	485 communication port. They are used to control devices such as PTZ. Please parallel connect 120TΩ between A/B cables if there are too many PTZ decoders.T

3.6.2 Alarm Input Port

Please refer to the following sheet for more information:

- Normal open or Normal close type.
- Please parallel connect COM end and GND end of the alarm detector (Provide external power to the alarm detector).
- Please parallel connect the Ground of the DVR and the ground of the alarm detector.
- Please connect the NC port of the alarm sensor to the DVR alarm input(ALARM)
- Use the same ground with that of DVR if you use external power to the alarm device.

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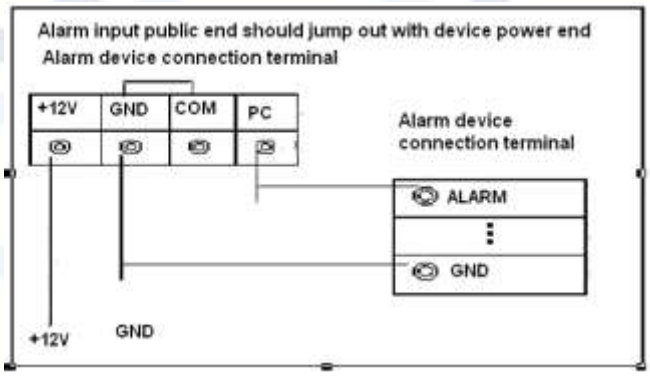

Figure 3-4

3.6.3 Alarm Output Port

- Provide power to peripheral alarm device.
- To avoid overloading, please read the following relay parameters sheet carefully.
- RS485 A/B cable is for the A/B cable of the PTZ decoder.

Relay Specification

Model:	**JRC-27F**	
Material of the touch	Silver	
Rating （Resistance Load）	Rated switch capacity	30VDC 2A, 125VAC 1A
	Maximum switch power	125VA 160W
	Maximum switch voltage	250VAC, 220VDC
	Maximum switch currency	1A
Insulation	Between touches with same polarity	1000VAC 1minute
	Between touches with different polarity	1000VAC 1minute
	Between touch and winding	1000VAC 1minute
Surge voltage	Between touches with same polarity	1500V (10×160us)
Length of open time	3ms max	
Length of close time	3ms max	
Longevity	Mechanical	50×106 times (3Hz)
	Electrical	200×103 times (0.5Hz)
Temperature	-40℃~+70℃	

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3.7 RS232

You can connect the DVR with POS or Keyboard through RS232.
With POS system, the DVR can communicate through RS232 and network. For the POS system, the DVR can integrate the text content and even search the record through the info.

The series DVR also support NKB operation. You can operate the DVR from the keyboard controls instead of using the control pad on the front panel of the unit.

To connect a NKB keyboard to the DVR:
1. Assemble the KBD keyboard according to the instructions in its accompanying installation manual.
2. Connect the KBD keyboard into one of the RS232 ports on the DVR or through network.

3.8 RS485

When the DVR receives a camera control command, it transmits that command up the coaxial cable to the PTZ device. RS485 is a single-direction protocol; the PTZ device can't return any data to the unit. To enable the operation, connect the PTZ device to the RS485 (A,B) input on the DVR. See Figure 3-8.

Since RS485 is disabled by default for each camera, you must enable the PTZ settings first. This series DVRs support multiple protocols such as Pelco-D, Pelco-P.

To connect PTZ devices to the DVR:

1. Connect RS485 A,B on the DVR rear panel (see Figure 3-5).
2. Connect the other end of the cable to the proper pins in the connector on the camera.
3. Please follow the instructions to configure a camera to enable each PTZ device on the DVR.

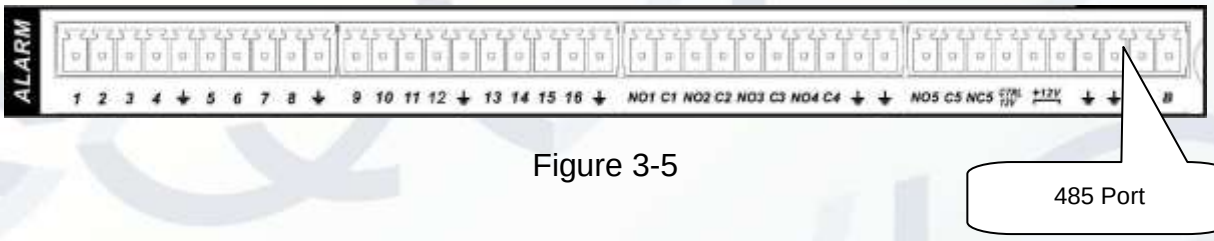

Figure 3-5

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4 Overview of Navigation and Controls

Before operation, please make sure:

- You have properly installed HDD and all the cable connections.
- The provided input power and the device power are matched.
- The external power should be DC 12V or AC90~264V 50+2% Hz.
- Always use the stable current, if necessary UPS is a best alternative measure.

4.1 Login, Logout & Main Menu

4.1.1 Login

After system has booted up, system pops up the startup wizard.

Click the Cancel button; you can go to the system login interface.

The system login interface is shown as in Figure 4-.

System consists of four accounts:

- **Username:** admin. **Password:** admin. (administrator, local and network)
- **Username:** 888888. **Password:** 888888. (administrator, local only)
- **Username:** 666666. **Password:** 666666(Lower authority user who can only monitor, playback, backup and etc.)
- **Username**: default. **Password**: default(hidden user)

You can use USB mouse, front panel, or keyboard to input. About input method: Click 123 to switch between numeral, English character (small/capitalized) and denotation.

Note: For security reason, please modify password after you first login.

Failure to login in after three attempts will result in the system alarm being triggered and after five failed logins the account will be locked!

Figure 4-1

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4.1.2 Main Menu

After you logged in, the system main menu is shown as below. See Figure 4-2.

There are total six icons: search, information, setting, backup, advanced and shutdown. You can move the cursor to highlight the icon, and then double click mouse to enter the sub-menu.

Figure 4-2

4.1.3 Logout

There are two ways for you to log out.

One is from menu option:

In the main menu, click shutdown button, you can see an interface is shown as below. See Figure 4-3.

Figure 4-3

There are several options for you. See Figure 4-4.

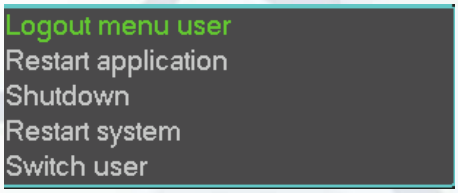

Figure 4-4

The other ways is to press power button on the front panel for at least 3 seconds, system will stop all operations. Then you can click the power button in the rear panel to turn off the DVR.

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4.1.4 Auto Resume after Power Failure

The system can automatically backup video and resume previous working status after power failure.

4.1.5 Replace Button Battery

Please make sure to use the same battery model if possible.

We recommend replace battery regularly (e.g. after one-year) to guarantee system time accuracy.

Note: Before replacement, please save the system setup, otherwise, you may lose the data completely!

4.2 Live Viewing

After you have logged in, the system is in live viewing mode. You can see system date, time and channel name. If you want to change system date and time, you can refer to general settings (Main Menu->Setting->General). If you want to modify the channel name, please refer to the display settings (Main Menu->Setting->Display).

1		Recording status	3		Video loss
2		Motion detection	4		Camera lock

Tips

- Preview drag: If you want to change position of channel 1 and channel 16 when you are previewing, you can left click mouse in the channel 1 and then drag to channel 16, release mouse you can switch channel 1 and channel 16 positions.
- Use mouse middle button to control window split: You can use mouse middle button to switch window split amount.

Preview Control

The preview control function has the following features:

- Support preview playback.
  - ✧ In the preview desktop, system can playback previous 5-60 minutes record of current channel. Please go to the Main Menu->General to set real-time playback time.
  - ✧ Support drag and play function. You can use your mouse to select any playback start time.
  - ✧ Support playback, pause and exit function.
  - ✧ Right now, system does not support slow playback and backward playback function.
- Support digital zoom function.
- Support real-time backup function.

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You can follow the contents listed below for the operation instruction:

Preview control interface

Move you mouse to the top centre of the video of current channel, you can see system pops up the preview control interface. See Figure 4-6. If your mouse stays in this area for more than 6 seconds and has no operation, the control bar automatically hides.

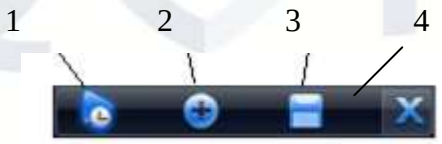

Figure 4-6

You can refer to the following sheet for detailed information:

SN	Name	Function
1	Realtime playback	• It is to playback the previous 5-60 minutes record of current channel. • Please go to the Main Menu->General to set real-time playback time. • System may pop up a dialogue box if there is no such record in current channel.
2	Digital zoom	It is to zoom into specified zone of current channel. It supports zoom in function of multiple-channel. The selected area has an icon as and the free area is shown as an icon as.
3	Real-time backup function	It is to backup the video of current channel to the USB device. System can not backup the video of multiple-channel at the same time. Current selected backup channel has an icon as and the free channel is shown as an icon as. . Once the backup started, you can see the free channel is shown as an icon as.
4	Exit	

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Playback control

The playback control has the following features:

- Support play, pause, and exit and drag function.
- During the preview playback process, you can not see the channel title and record status of current channel. It will display the channel title and the record status once you exit the preview playback.
- During the preview playback, you can not switch the displayed channel or change current window-display mode.
- Please note the tour function has the higher priority than the preview playback. You can not control the preview playback until the tour function ended.

4.3 Manual Record

Note: You need to have proper rights to implement the following operations. Please make sure the HDD has been properly installed.

4.3.1 Manual record menu

There are two ways for you to go to manual record menu:

- Right click mouse or in the main menu, Advanced->Manual Record.
- In live viewing mode, click record button in the front panel or record button in the remote control.

Manual record menu is shown as in Figure 4-1.

4.3.2 Basic operation

There are two modes: main stream and extra stream. There are three statuses: schedule/manual/stop. Please highlight icon “○” to select corresponding channel.

- Schedule: Channel records as you have set in recording setup (Main Menu->Setting->Schedule)
- Manual: The highest priority. After manual setup, all selected channels will begin ordinary recording.
- Stop: All channels stop recording.

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Figure 4-1

4.3.3 Enable/disable record

Please check current channel status: “○” means it is not in recording status, “●” means it is in recording status.

You can use mouse or direction key to highlight channel number. See Figure 4-2.

Figure 4-2

4.3.4 Enable all channel recording

Highlight ○ below All, you can enable all channel recording.

- All channel schedule record

Please highlight “ALL” after “Schedule”. See Figure 4-3.

When system is in schedule recording, all the channels will record as you have previously set (Main menu->Setting->Schedule).

The corresponding indication light in front panel will turn on.

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Figure 4-3

- All channel manual record

Please highlight “ALL” after “Manual.” See Figure 4-4.

When system is in manual recording, all scheduled set up you have set in will be null ((Main menu->Setting->Schedule)).

You can see indication light in front panel turns on, system begins manual record now.

Figure 4-4

4.3.5 Stop all channel recording

Please highlight “ALL” after “Stop”. See Figure 4-5.
System stops all channel recording no matter what mode you have set in the menu (Main menu->Setting->Schedule)

Figure 4-5

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4.4 Search & Playback

4.4.1 Search Menu

Click search button in the main menu, search interface is shown as below. See Figure 4-12. Usually there are three file types:

- R: Regular recording file.
- A: External alarm recording file.
- M: Motion detection recording file

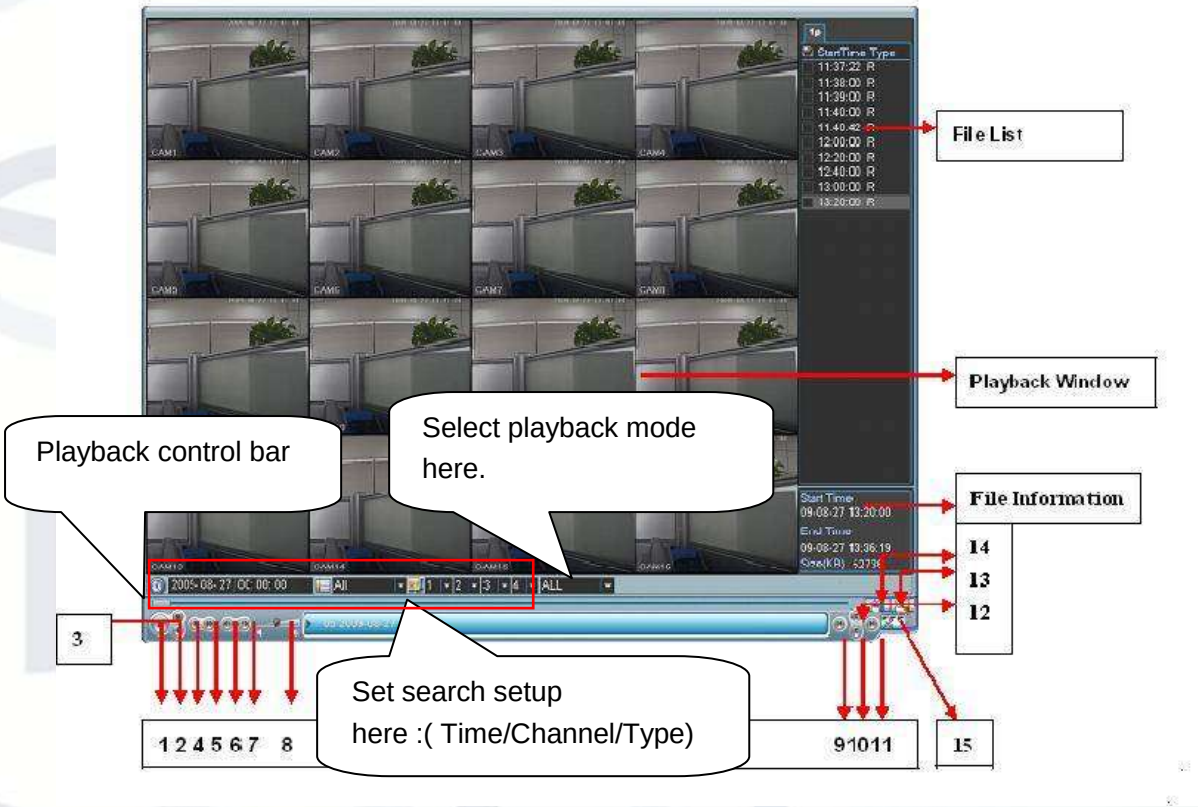

Figure 4-12

Please refer to the following sheet for more information:

Serial Number	Function
1	Play
2	Backward
3	Stop
4	Slow play
5	Fast play
6	Previous frame
7	Next frame
8	Volume
9	Previous file
10	Next channel
11	Next file
12	Previous channel
13	Search
14	Backup
15	Clip

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4.4.2 Basic Operation

- **Playback**

There are various search modes: video type, channel number or time. The system can max display 128 files in one screen. You can use page up/down button to view if there are more than one page.

Select the file name and double click mouse (or click enter button), you can view file content.

- **Playback Mode:**

There are three playback modes: 4-channel, 1-16 channel, 17-32 channel. In 4-ch playback mode, you can select the 1/2/3/4-ch playback according to your requirement. In 16-channel mode, the system can playback 1 to 16 (the 1st –the 16th) channels at the same time. In 17-32 channel playback mode, the system can playback 17 to 32 (the 17th –the 32nd) channels at the same time.

- **Accurate playback:**

Input time (h/m/s) in the time column and then click playback button, system can operate accurate playback.

- **Synchronized playback function when playback:**

During playback process, click numeral key, system can switch to the corresponding channel video of the same time.

- **Digital zoom:**

When the system is in full-screen playback mode, drag your mouse in the screen to select a section and then left click mouse to realize digital zoom. You can right click mouse to exit.

- **File backup and clip:**

System supports backup operation during search. You can draw a √ before file name (multiple choices). Then click backup button (Button 14 in Figure 4-10).

If you want to clip a period of file, please playback the original file first. Click the (Button 15 in Figure 4-) at the start point (that is your new file beginning point). Drag the file to the end point (that is your new file end point) and then click the again. Click the backup button (Button 14 in Figure 4-) to save your current new file.

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- **Slow playback and fast playback:**

Please refer to the following sheet for slow play and fast playback function:

Button	Illustration	Remarks
Fast play button ⏩	In playback mode, click this button to switch between various fast play modes such as fast play 1,fast play 2 and more.	Frame rate may vary due to different versions.
Slow play button ►	In playback mode, click this button to switch between various slow play modes such as slow play 1 or slow play 2.	
Play/Pause► ⏸	In slow playback mode, click this button to switch between play/pause modes.	
Previous/next	In playback mode, you can click ⏮ and ⏭ to view previous or next video in current channel.	

-
- Fast forward/fast backward and frame by frame playback (Special shutter and jog operations):

Special Functions of Shuttle and Jog	Illustration	Remarks
Fast forward(outer ring clockwise)	When playback, turn the shuttle (outer ring) clockwise one round: you can view in fast level 1 Turn it two rounds you get fast level 2. You can continue turning to get different speed.	In forward or backward mode, double click Pause/Play button to get normal playback. Frame rate may vary due to different version.
Fast backward(outer ring counter clockwise)	When playback, turn the shuttle (outer ring) counter clock-wise one round, you can view in backward level 1. Turn it two rounds, you get backward level 2. You can continue turning to get different speed.	
Manual playback frame by frame	In playback mode, click play/pause button, slowly turn the jog (inner dial) clock-wise to view frame by frame, counter clock wise to view I frame playback.	

- Backward playback and frame by frame playback:

Button	Illustration	Remarks
Backward play: ⏸◄ in playback interface.	In normal playback mode, left click backward play button◄, system begins backward playback. Double click backward play button again, system goes to pause mode.	When system is in backward play or frame by frame playback mode, you can click play button►/ ⏸ to go to normal playback.
Manual playback frame by frame.	Click pause button in normal playback mode, you can use ◄❙ and ❙► to view frame by frame.	

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Note:
All the operations here (such as playback speed, channel, time and progress) have relationship with hardware version. Some series DVRs do not support some functions or playback speeds.

4.4.3 Calendar

Click calendar icon in Figure 4-12, system pops up a calendar for your reference.

The highlighted date means there are record files in that day. You can click blue date to view file list.

In Figure 4-, there are video files in 13th June and 14th June. Double click the date to view its file list.

Figure 4-13

4.5 Schedule

After system booted up, it is in default 24-hour regular mode. You can set record type and time in schedule interface.

4.4.1 Schedule Menu

In the main menu, from setting to schedule, you can go to schedule menu. See Figure 4-14.

- **Channel:** Please select the channel number first. You can select "all" if you want to set for the whole channels.
- **Week day:** There are eight options: ranges from Saturday to Sunday and all.
- **Pre-record:** System can pre-record the video before the event occurs into the file. The value ranges from 1 to 30 seconds depending on the bit stream.
- **Redundancy:** System supports redundancy backup function. It allows you backup recorded file in two disks. You can highlight Redundancy button to activate this function. Please note, before enable this function, please set at least one HDD as redundant. (Main menu->Advanced->HDD Management) Please refer to chapter 4.4.1.2 for detailed information.
- **Snapshot:** You can enable this function to snapshoot image when alarm occurs.
- **Record types:** There are four types: regular, motion detection (MD), Alarm, MD & alarm.

Please highlight icon to select the corresponding function. After completing all the setups please click save button, system goes back to the previous menu.

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At the bottom of the menu, there are color bars for your reference. Green color stands for regular recording, yellow color stands for motion detection and red color stands for alarm recording. The white means the MD and alarm record is valid. Once you have set to record when the MD and alarm occurs, system will not record neither motion detect occurs nor the alarm occurs.

SCHEDULE
Channel 1 PreRecord 4 sec. Redundancy Snapshot
Week Day Mon Record Type Regular MD Alarm MD&Alarm
Period 1 00 :00 -24 :00
Period 2 00 :00 -24 :00
Period 3 00 :00 -24 :00
Period 4 00 :00 -24 :00
Period 5 00 :00 -24 :00
Period 6 00 :00 -24 :00
Regular MD Alarm MD&Alarm
0 3 6 9 12 15 18 21 24
Copy Paste Default Save Cancel

Figure 4-14

- **Quick Setup**

This function allows you to copy one channel setup to another. After setting in channel 1, you can click paste button and turn to channel 2 and then click copy button. You can finish setting for one channel and then click save button or you can finish all setup and then click save button to memorize all the settings.

- **Redundancy**

Redundancy function allows you to memorize record file in several disks. When there is file damage occurred in one disk, there is a spare one in the other disk. You can use this function to maintain data reliability and safety.

In the main menu, from Setting to Schedule, you can highlight redundancy button to enable this function. See Figure 4-14.

In the main menu, from Advanced to HDD management, you can set one or more disk(s) as redundant. You can select from the dropdown list. See Figure 4-15. System auto overwrites old files once hard disk is full.

Please note only read/write disk or read-only disk can backup file and support file search function, so you need to set at least one read-write disk otherwise you can not record video.

About redundancy setup:

- If current channel is not recording, current setup gets activated when the channel begin recording the next time.
- If current channel is recording now, current setup will get activated right away, the current file will be packet and form a file, then system begins recording as you have just set.

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After all the setups please click save button, system goes back to the previous menu.

Figure 4-15

Playback or search in the redundant disk.

There are two ways for you to playback or search in the redundant disk:

- Set redundant disk(s) as read-only disk or read-write disk (Main menu->Advanced->HDD management). See Figure 4-15. System needs to reboot to get setup activated. Now you can search or playback file in redundant disk.
- Dismantle the disk and play it in another PC.

4.5.2 Snapshot

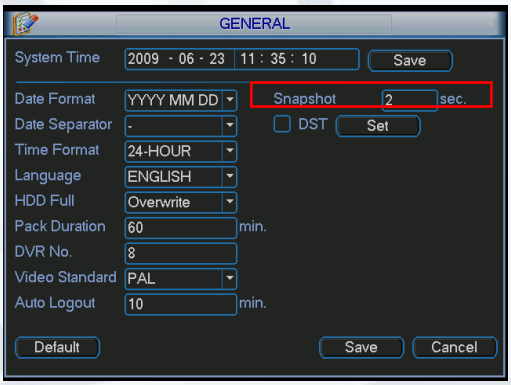
- **Schedule Snapshot**

In Encode interface, click snapshot button to input snapshot mode, size, quality and frequency.

In General interface please input upload interval.

In Schedule interface, please enable snapshot function.

Please refer to the following figure for detailed information. See Figure 4-16:



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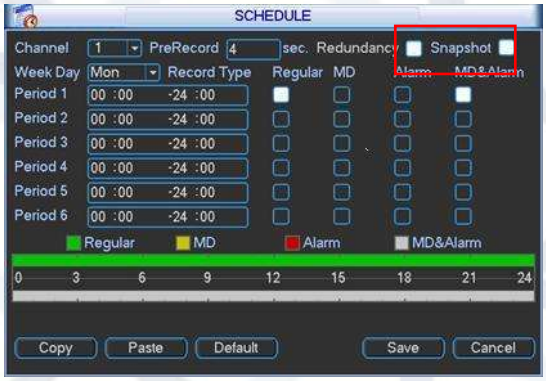

Figure 4-16

- **Activation Snapshot**

Please follow the steps listed below to enable the activation snapshot function. After you enabled this function, system can snapshot when the corresponding alarm occurred.

- In Encode interface, click snapshot button to input snapshot mode, size, quality and frequency.
- In General interface please input upload interval.
- In Detect interface please enable snapshot function for specified channels. Or in alarm interface please enable snapshot function for specified channels.

Please refer to the following figure for detailed information. See Figure 4-17.

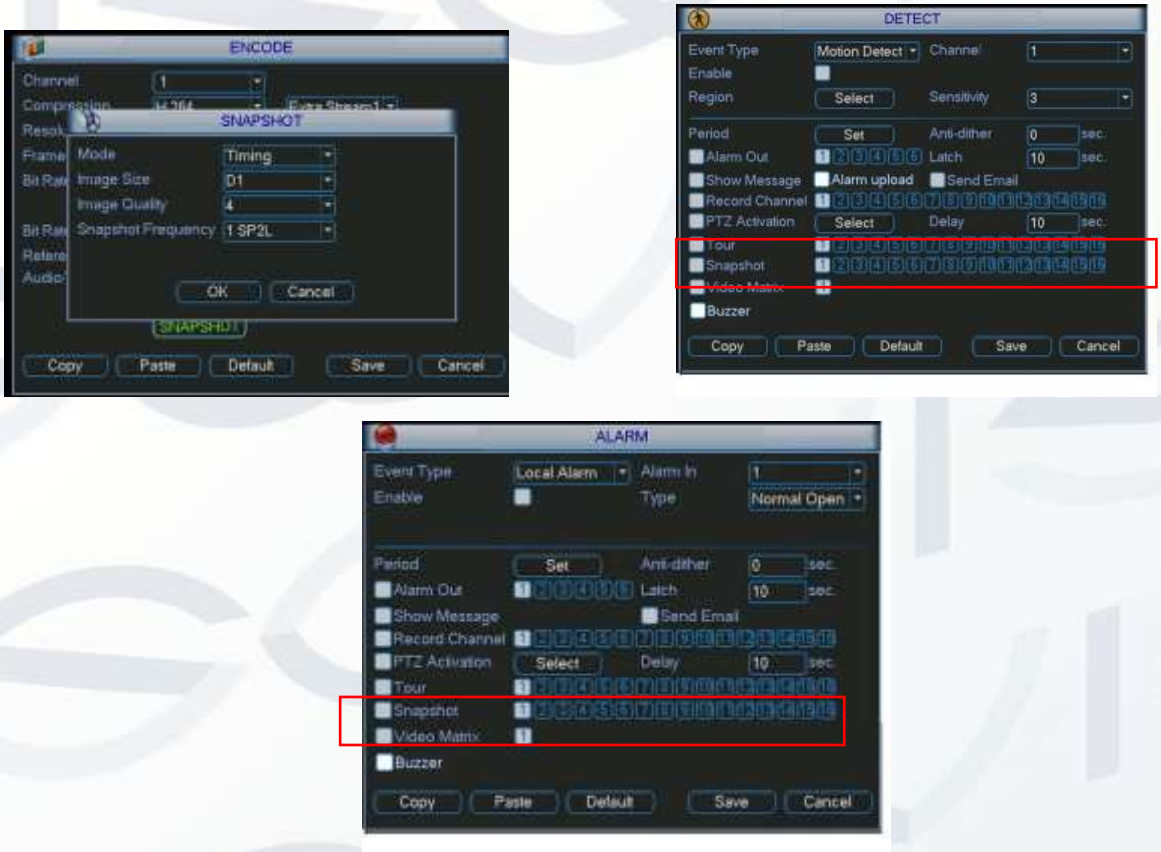

Figure 4-17

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- **Priority**

Please note the activation snapshot has the higher priority than schedule snapshot. If you have enabled these two types at the same time, system can activate the activation snapshot when alarm occurs, and otherwise system just operates the schedule snapshot.

4.5.3 Image FTP

In Network interface, you can set FTP server information. Please enable FTP function and then click save button. See Figure 4-18.

Please boot up corresponding FTP server.
Please enable schedule snapshot (Chapter 4.4.2.1) or activation snapshot (Chapter 4.4.2.2) first, now system can upload the image file to the FTP server.

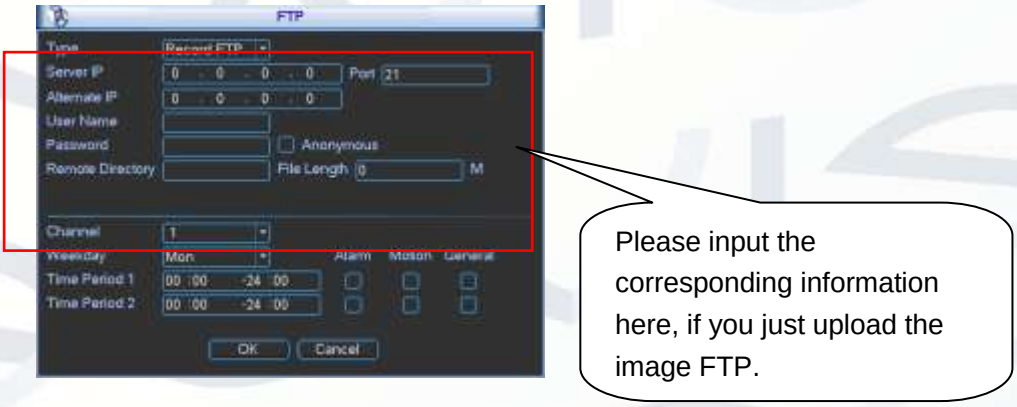

Figure 4-18

4.5.4 Snapshot Disk (For special series only)

Set one disk as snapshot (Main menu->Advanced->HDD management) and then click execute button. See Figure 4-19. System needs to reboot to get current setup activated.

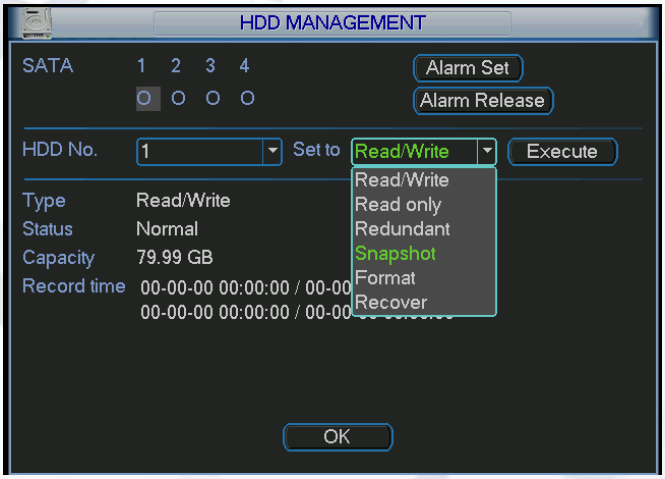

Figure 4-19

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All scheduled snapshot files or activated snapshot files will be memorized in the snapshot disk. You can search the corresponding images via Web. See Figure 4-20.

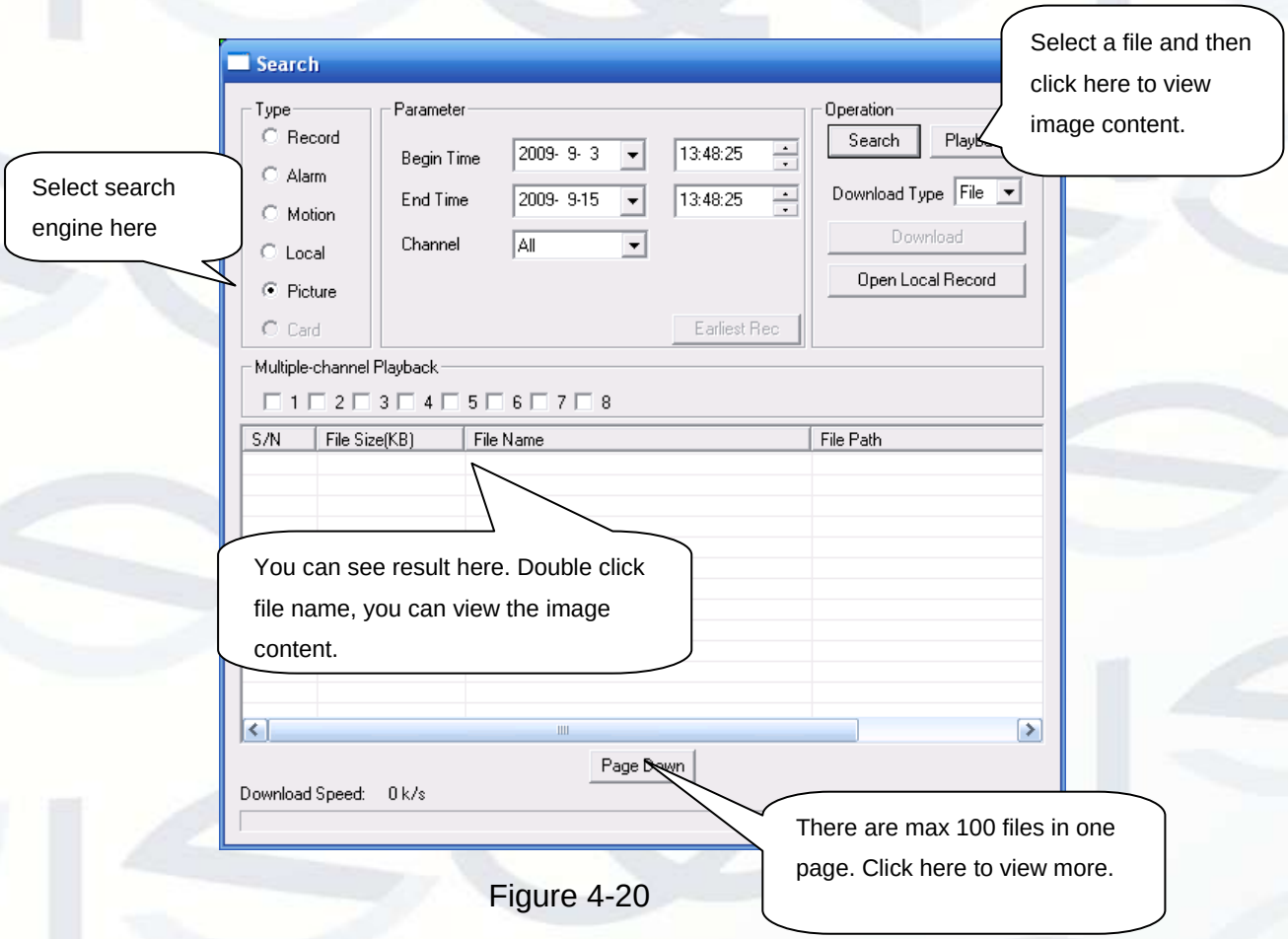

Figure 4-20

4.6 Detect

4.5.1 Go to Detect Menu

In the main menu, from Setting to Detect, you can see motion detect interface. See Figure 4-20.There is three detection types: motion detection, video loss, camera masking.

4.5.2 Motion Detect

Detection menu is shown as below. See Figure 4-21.

- **Event type:** from the dropdown list you can select motion detection type.
- **Channel:** select the channel to activate recording function once alarm occurred. Please make sure you have set MD record in encode interface(Main Menu->Setting->Schedule) and schedule record in manual record interface(Main Menu->Advanced->Manual Record)
- **Latch:** when motion detection complete, system auto delays detecting for a specified time. The value ranges from 10-300(Unit: second)
- **Region:** Click select button, the interface is shown as in Figure 4-22. Here you can set motion detection zone. There are 396(PAL)/330(NTSC) small zones. The green zone is current cursor position. Grey zone is the motion detection zone. Black zone is the disarmed zone. You can

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click Fn button to switch between the arm mode and disarm mode. In arm mode, you can click the direction buttons to move the green rectangle to set the motion detection zone. After you completed the setup, please click ENTER button to exit current setup. Do remember click save button to save current setup. If you click ESC button to exit the region setup interface system will not save your zone setup.

- **Sensitivity:** System supports 6 levels. The sixth level has the highest sensitivity.
- **Show message:** System can pop up a message to alarm you in the local host screen if you enabled this function.
- **Alarm upload:** System can upload the alarm signal to the network (including alarm centre) if you enabled current function.
- **Send email:** System can send out email to alert you when alarm occurs.
- **PTZ activation:** Here you can set PTZ movement when alarm occurs. Such as go to preset, tour &pattern when there is an alarm. Click "select" button, you can see an interface is shown as in Figure 4-23.
- **Period:** Click set button, you can see an interface is shown as in Figure 4-24. Here you can set for business day and non-business day. In Figure 4-24 click set button, you can see an interface is shown as in Figure 4-25. Here you can set your own setup for business days and non-business days.
- **Anti-dither:** Here you can set anti-dither time.
- **Alarm output:** when alarm occurred, system enables peripheral alarm devices.
- Tour: Here you can enable tour function when alarm occurs. System one-window tour. Please go to chapter 5.3.9 Display for tour interval setup.
- **Video matrix:** Once you enable this function, the selected alarm channel will be displayed in video output channel.
- **Snapshot:** You can enable this function to snapshoot image when alarm occurs.
- **Buzzer:** Highlight the icon to enable this function. The buzzer beeps when alarm occurs.

Please highlight icon to select the corresponding function. After all the setups please click save button, system goes back to the previous menu.

Note: In motion detection mode, you can not use copy/paste to set channel setup since the video in each channel may not be the same.

In Figure 4-18, you can left click mouse and then drag it to set a region for motion detection. Click Fn to switch between arm/withdraw motion detection. After setting, click enter button to exit.

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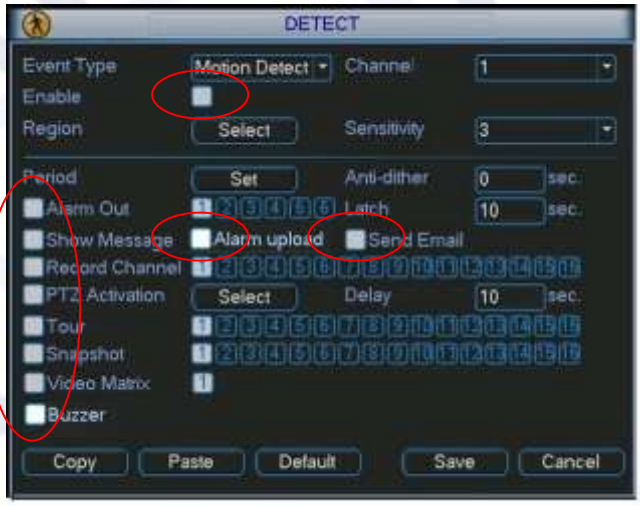

Figure 4-21

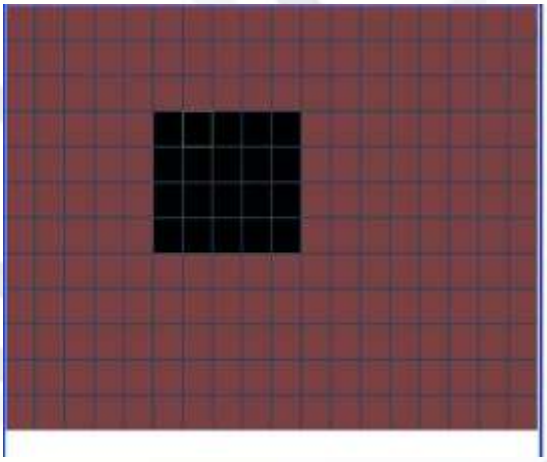

Figure 4-22

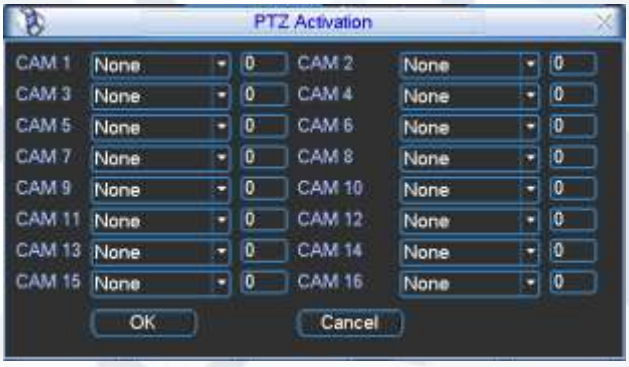

Figure 4-23

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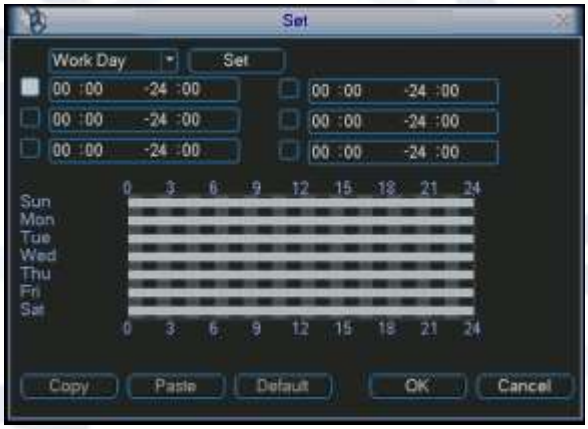

Figure 4-24

Figure 4-25

4.5.3 Video Loss

In Figure 4-21, select video loss from the type list. You can see the interface is shown as in Figure 4-26 .This function allows you to be informed when video loss phenomenon occurred.

You can enable alarm output channel and then enable show message function.

Tip: You can enable preset activation operation when video loss occurs.

Please refer to chapter 4.5.2 motion detection for detailed information.

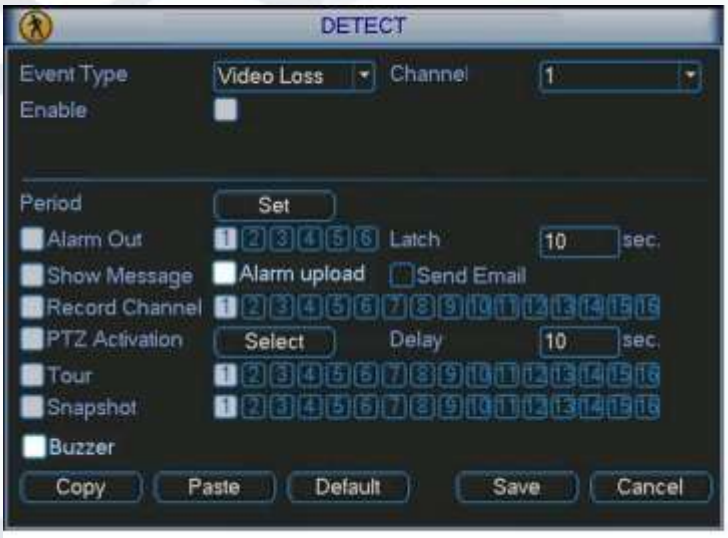

Figure 4-26

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4.5.4 Camera Masking

When someone masks the lens to able to carry out unmonitored illegal/unauthorised activities, or the output video is in one-color due to the environments light change, the system can alert you to guarantee video continuity. Camera masking interface is shown as in Figure 4-27.

Tip: You can enable preset/tour/pattern activation operation when video loss occurs. Please refer to chapter 4.5.2 motion detection for detailed information.

Note: In Detect interface, copy/paste function is only valid for the same type, which means you can not copy a channel setup in video loss mode to camera masking mode.

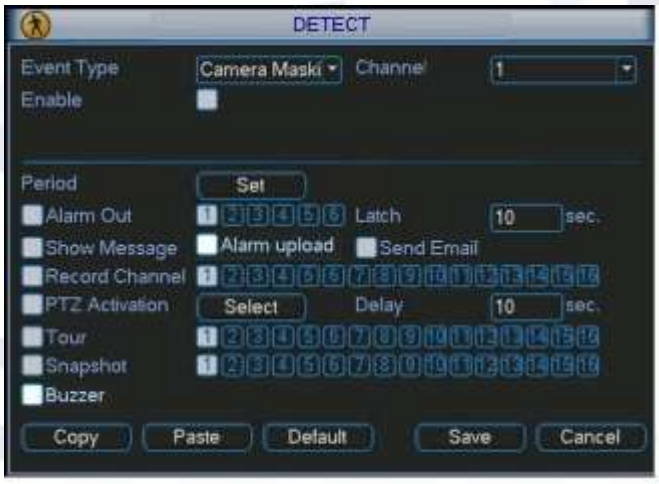

Figure 4-27

4.6 Alarm Setup and Alarm Activation

Before operation, please make sure you have properly connected alarm devices such as buzzer.

4.6.1 Go to alarm setup interface

In the main menu, from Setting to Alarm, you can see alarm setup interface. See Figure 4-28.

4.6.2 Alarm setup

Alarm interface is shown as below. See Figure 4-28.

- **Alarm in:** Here is for you to select channel number.
- **Event type:** There are two types. One is local input and the other is network input.
- **Type:** normal open or normal close.
- **PTZ activation:** Here you can set PTZ movement when alarm occurs. Such as go to preset, tour& pattern when there is an alarm. Click “select” button, you can see an interface is shown as in Figure 4-.

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- **Period:** Click set button, you can see an interface is shown as in Figure 4-. Here you can set for business day and non-business day. In Figure 4-, click set button, you can see an interface is shown as in Figure 4-. Here you can set your own setup for business day and non-business day.
- **Anti-dither:** Here you can set anti-dither time.
- Show message: System can pop up a message to alarm you in the local host screen if you enabled this function.
- **Alarm upload:** System can upload the alarm signal to the network (including alarm centre) if you enabled current function.
- **Send email:** System can send out email to alert you when alarm occurs.
- Record channel: you can select proper channel to record alarm video (Multiple choices). At the same time you need to set alarm record in schedule interface (Main Menu->Setting->Schedule) and select schedule record in manual record interface (Main Menu->Advance->Manual Record).
- **Latch:** Here is for you to set proper delay duration. Value ranges from 10 to 300 seconds. System automatically delays specified seconds in turning off alarm and activated output after external alarm cancelled.
- **Tour:** Here you can enable tour function when alarm occurs. System supports one-window tour. Please go to chapter 5.3.9 Display for tour interval setup.
- **Video matrix:** Once you enable this function, the selected alarm channel will be displayed in video output channel.
- **Buzzer:** Highlight the icon to enable this function. The buzzer beeps when alarm occurs.

For snapshot operation, please refer to chapter 4.4.2.

Please highlight icon to select the corresponding function. After setting all the setups please click save button, system goes back to the previous menu.

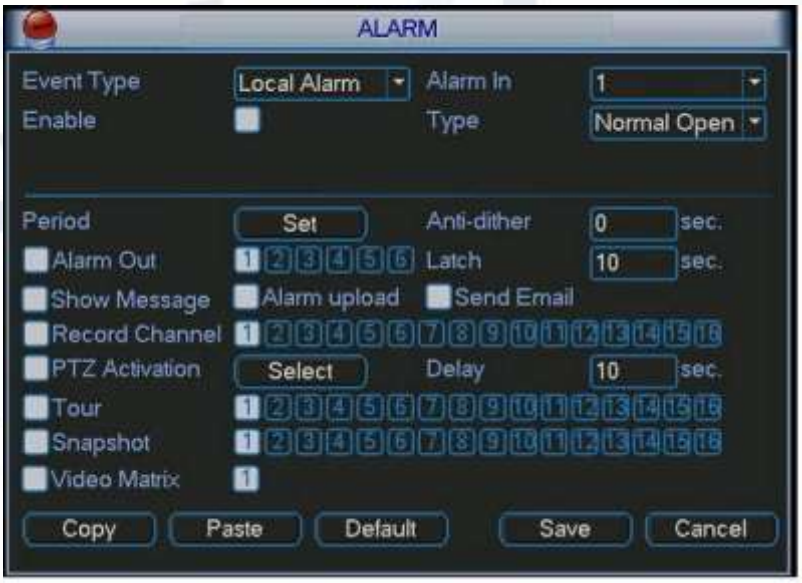

Figure 4-28

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Figure 4-29

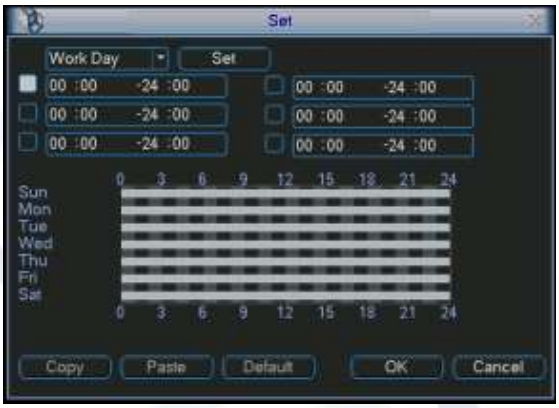

Figure 4-30

Figure 4-31

4.7 Backup

DVR support USB device backup and network download. Here we introduce USB backup and eSATA backup. You can refer to Chapter 7 Web Client Operation for network download backup operation.

4.7.1 Detect Device

Click backup button, you can see an interface is shown as in Figure 4-32. Here is for you to view devices information.

You can view backup device name and its total space and free space. The device includes USB burner, flash disk, SD card, portable HDD and eSATA.

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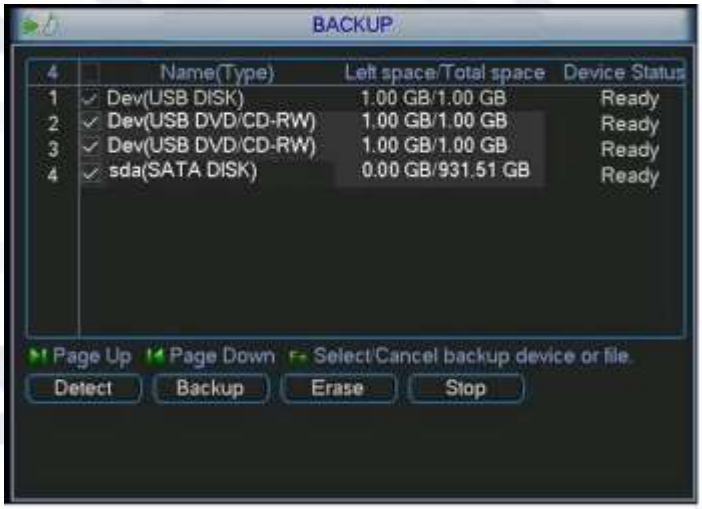

Figure 4-32

4.7.1 Backup

Select backup device and then set channel, file start time and end time.

Click add button, system begins search. All matched files are listed below. System automatically calculates the capacity needed and remained. See Figure 4-33.

system only backup files with a √ before channel name. You can use Fn or cancel button to delete √ after file serial number.

Click backup button, you can backup selected files. There is a process bar for you reference. When the system completes backup, you can see a dialogue box prompting successful backup.

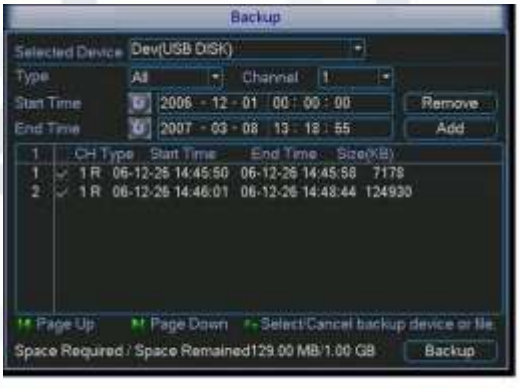

Figure 4-33

Click backup button, system begins burning. At the same time, the backup button becomes stop button. You can view the remaining time and process bar at the left bottom. See Figure 4-34.

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Figure 4-34

The file name format usually is: SN_CH+channel number+time Y+M+D+H+M+S. In the file name, the YDM format is the same as you set in general interface. (Main Menu ->Setting ->General).File extension name is .dav.

Tips:
During backup process, you can click ESC to exit current interface for other operation. The system will not terminate backup process.

Note:
When you click stop button during the burning process, the stop function becomes activated immediately. For example, if there are ten files, when you click stop system just backup five files, system only save the previous 5 files in the device (But you can view ten file names).

4.8 PTZ Control and Color Setup

Note: All the operations here are based on PELCOD protocol. For other protocols, there might be a little difference.

4.8.1 Cable Connection

Please follow the procedures below to go on cable connection:

1. Connect the dome RS485 port to DVR 485 port.
2. Connect dome video output cable to DVR video input port.
3. Connect power adapter to the dome.

4.8.2 PTZ Setup

Note: The camera video should be in the current screen. Before setup, please check the following connections are right:

- PTZ and decoder connection is right. Decoder address setup is right.
- Decoder A (B) line connects with DVR A (B) line.
- Boot up the DVR, input user name and password.

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- In the main menu, click setting, and then click Pan/Tilt Control button. The interface is shown as in Figure 4-35. Here you can set the following items:
- Channel: select the current camera channel.
- Protocol: select corresponding PTZ protocol(such as PELCOD)
- Address: default address is 1.
- Baud rate: select corresponding baud rate. Default value is 9600.
- Data bits: select corresponding data bits. Default value is 8.
- Stop bits: select corresponding stop bits. Default value is 1.
- Parity: there are three options: odd/even/none. Default setup is none.

Figure 4-35

After completing all the setting please click save button.

In one window display mode, right click mouse (click “Fn” Button in the front panel or click “Fn” key in the remote control). The interface is shown as in Figure 4-36.

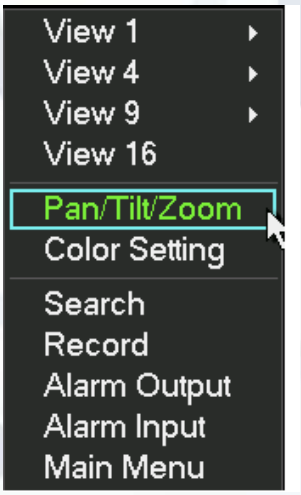

Figure 4-36

Click Pan/Tilt/Zoom, the interface is shown as below. See Figure 4-37.

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Here you can set the following items:

- Step: value ranges fro 1 to 8.
- Zoom
- Focus
- Iris

Please click icon and to adjust zoom, focus and iris.

Figure 4-37

In Figure 4-37, please click direction arrows (See Figure 4-38) to adjust PTZ position. There are total 8 direction arrows.

Figure 4-38

4.8.3 3D Intelligent Positioning Key

In the middle of the eight direction arrows, there is a 3D intelligent positioning key. See Figure 4-39. Please make sure your protocol supports this function and you need to use mouse to control.

Click this key, system goes back to the single screen mode. Drag the mouse in the screen to adjust section size. The dragged zone supports 4X to 16X speeds. It can realize PTZ automatically. The smaller zone you dragged, the higher the speed.

Figure 4-39

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Here is a sheet for your reference:

Name	Function key	function	Shortcut key	Function key	function	Shortcut Key
Zoom		Near			Far	
Focus		Near	| ◄		Far	► |
Iris		close	II ◄		Open	► II

4.9 Preset/ Patrol/Pattern/Scan

In Figure 4-37, please click the “Set” button. The interface is shown as below. See Figure 4-40. Here you can set the following items:

- Preset
- Tour
- Pattern
- Border

Figure 4-40

In Figure 4-37, click page switch button, the interface is shown as in Figure 4-41.

Here you can activate the following functions:

- Preset
- Tour
- Pattern
- Auto scan
- Auto pan
- Flip
- Reset
- Page switch

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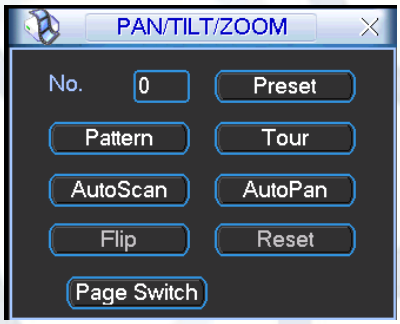

Figure 4-41

Note:

- Preset, tour and pattern all need the value to be the control parameter. You can define it as you require.
- You need to refer to your speed dome user's manual for Aux definition. In some cases, it can be used for special process.
- The following setups are usually operated in the Figure 4-37, Figure 4-40 and Figure 4-41.

4.9.1Preset Setup

In Figure 4-37, use eight direction arrows to adjust camera to the proper position.

In Figure 4-40, click preset button and input preset number. The interface is shown as in Figure 4-42. Now you can add this preset to one tour.

Figure 4-42

4.9.2 Activate Preset

In Figure 4-41, please input preset number in the 'No.' field blank, and click preset button.

4.9.3 Patrol setup (Tour Setup)

In Figure 4-38, click patrol button. The interface is shown as in Figure 4-43. Input preset number and add this preset to a patrol (tour). For each patrol (tour), you can input max 80 presets.

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Figure 4-43

4.9.4 Activate Patrol (tour)

In Figure 4-40, input patrol (tour) number in the No. blank and click patrol button.

4.9.5 Pattern Setup

In Figure 4-, click pattern button and then click “begin” button. The interface is shown as in Figure 4-44. Then you can go to Figure 4-44 to modify zoom, focus, and iris.

Go back to Figure 4-44 and click “End” button. You can memorize all these operations as pattern 1.

Figure 4-44

4.9.6 Activate Pattern Function

In Figure 4-40, input mode value in the No. blank, and click pattern button.

4.9.7 Auto Scan Setup

In Figure 4-40, click border button. The interface is shown as in Figure 4-45.

Please go to Figure 4-35, use direction arrows to select camera left limit.

Then please go to Figure 4-43 and click left limit button. Repeat the above procedures to set right limit.

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Figure 4-45

4.9.8 Activate Auto Scan

In Figure 4-41, click “Auto Scan” button, the system begins auto scan. Correspondingly, the auto scan button becomes Stop button. Click stop button to terminate scan operation.

4.10 Flip

In Figure 4-41, click page switch button, you will see the interface as shown below. See Figure 4-46.

Here you can set auxiliary function. The aux value has relation ship with the Aux button of the decoder.

Click page switch button again, system goes back to Figure 4-37.

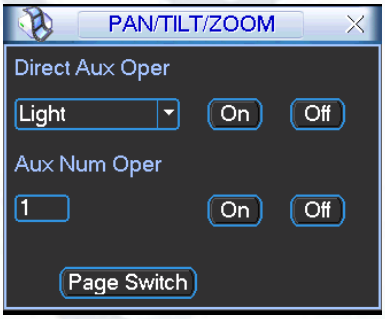

Figure 4-46

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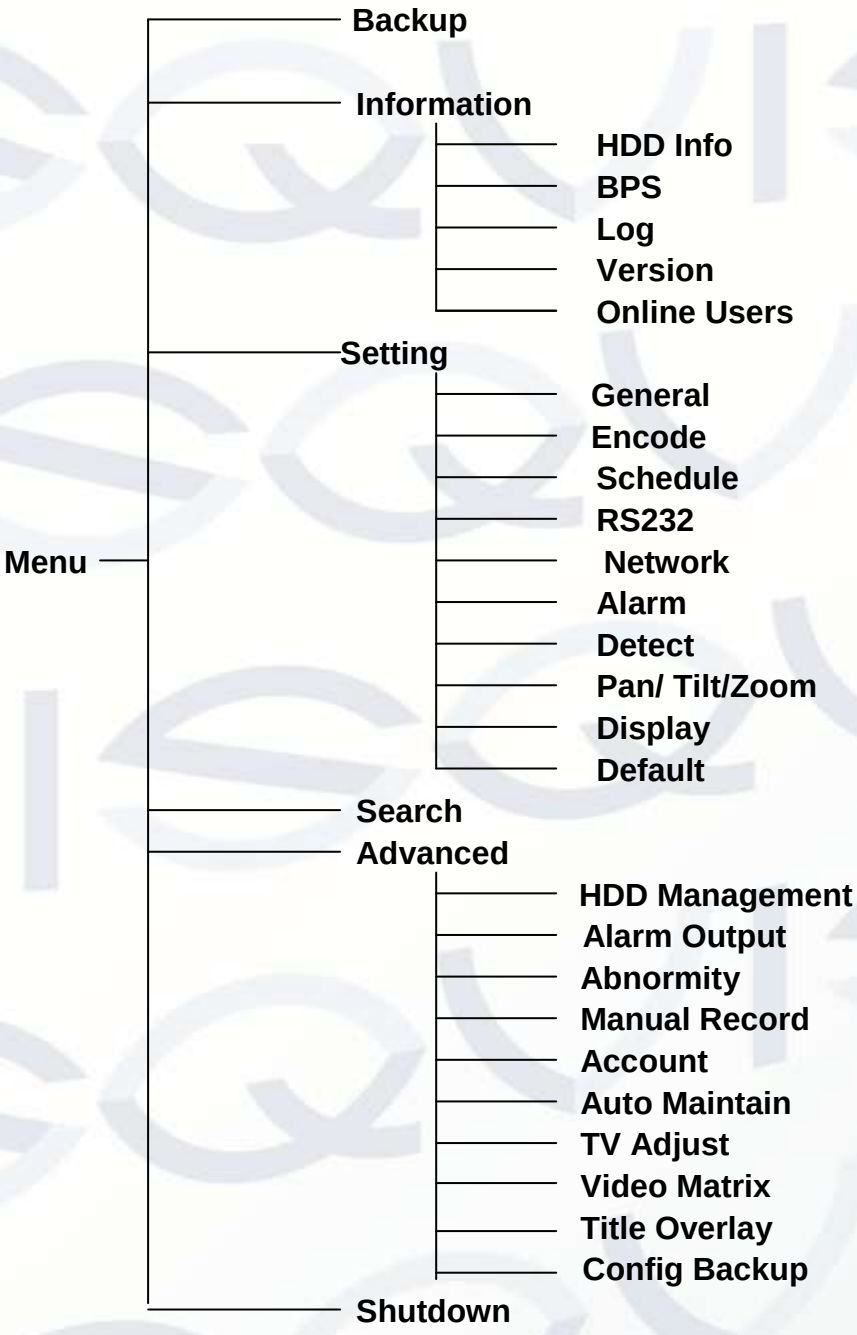
5 Understanding of Menu Operations and Controls

5.1 Menu Tree

This iApollo HD 32 menu tree is shown as below.



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5.2 Main Menu

After you logged in, the system main menu is shown as below. See Figure 5-1. There are total six icons: search, Information, setting, backup, advanced and shutdown. Move the cursor to highlight the icon, then double click mouse to enter the sub-menu.

Figure 5-1

5.3 Setting

In main menu, highlight setting icon and double click mouse. System setting interface is shown as below. See Figure 5-2.

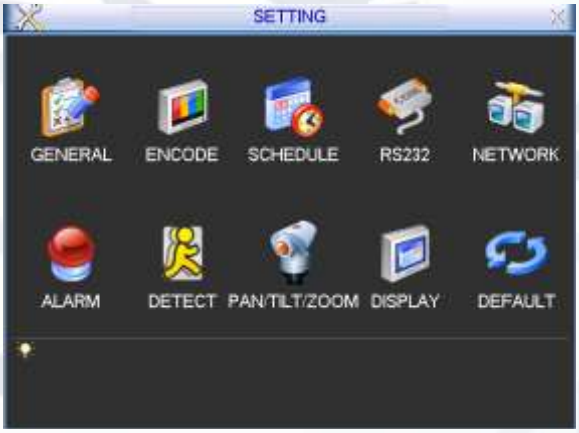

Figure 5-2

5.3.1 General

General setting includes the following items. See Figure 5-3.

- **System time:** Here is for you to set system time
- **Date format:** There are three types: YYYYY-MM-DD: MM-DD-YYYYY or DD-MM-YYYY.
- **Date separator:** There are three denotations to separate date: dot, beeline and solidus.
- **DST:** Here you can set DST time and date. Please enable DST function and then click set button. You can see an interface is shown as in Figure 5-4. Here you can set start time and end time by setting corresponding week setup. In Figure 5-4X, enable date button, you can

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see an interface is shown as in Figure 5-5. Here you can set start time and end time by setting corresponding date setup.

- **Time format:** There are two types: 24-hour mode or 12-hour mode.
- **Language:** System supports various languages: Chinese (simplified), Chinese (Traditional), English, Italian, Japanese, French, Spanish (All languages listed here are optional. Slight difference maybe found in various series.)
- **HDD full:** Here is for you to select working mode when hard disk is full. There are two options: stop recording or rewrite. If current working HDD is overwritten or the current HDD is full while the next HDD is no empty, then system stops recording, If the current HDD is full and then next HDD is not empty, then system overwrites the previous files.
- **Pack duration:** Here is for you to specify record duration. The value ranges from 60 to 120 minutes. Default value is 60 minutes.
- **DVR No:** When you are using one remote control (not included in the accessory bag) to control several DVRs, you can give a name to each DVR for your management.
- **Video standard:** There are two formats: NTSC and PAL.
- **Auto logout:** Here is for you to set auto logout interval once login user remains inactive for a specified time. Value ranges from 0 to 60 minutes.

IMPORTANT:

Since system time is very important, do not modify time casually unless there is a definite need to do so!

Before your time modification, please stop the record operation first!

After completing all the setups please click save button, system goes back to the previous menu:

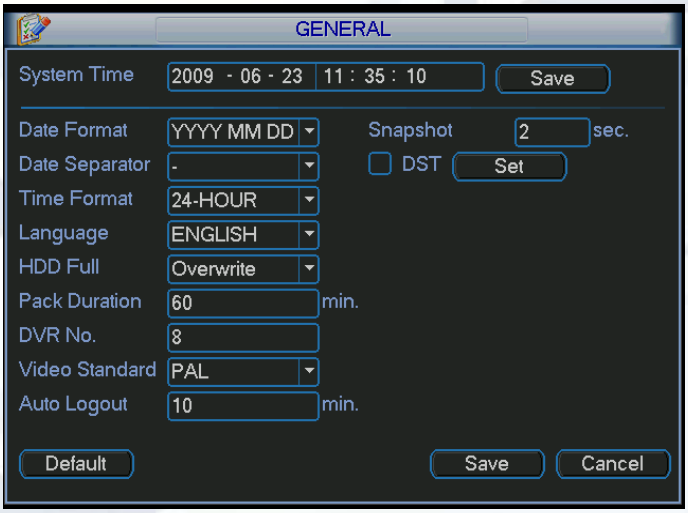

Figure 5-3

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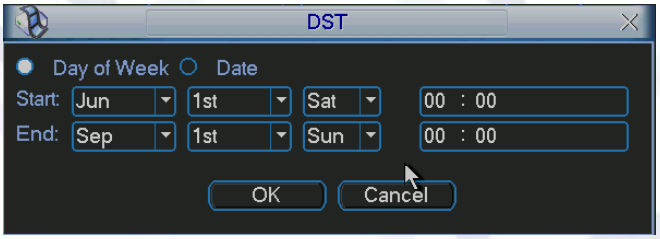

Figure 5-4

Figure 5-5

5.3.2 Encode

Encode setting includes the following items. See Figure 5-6.

Please note some series do not support extra stream.

- **Channel:** Select the channel you want.
- **Compression:** System supports H.264.
- **Resolution:** System supports various resolutions, you can select from the dropdown list. The main stream supports D1/HD1/BCIF/CIF/QCIF and the extra stream option may vary due to different series.
- **Frame rate:** It ranges from 1f/s to 25f/s in NTSC mode and 1f/s to 30f/s in PAL mode.
- Bit rate type: System supports two types: CBR and VBR. In VBR mode, you can set video quality.
- **Quality:** There are six levels ranging from 1 to 6. The sixth level has the highest image quality.
- **Video/audio:** You can enable or disable the video/audio.
- **Overlay:** Click overlay button, you can see an interface is shown in Figure 5-7.

Please highlight icon to select the corresponding function.

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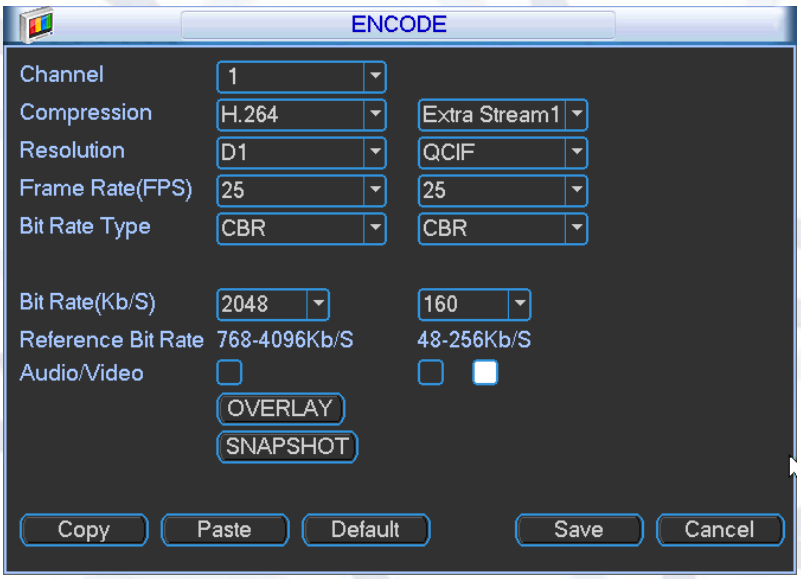

Figure 5-6

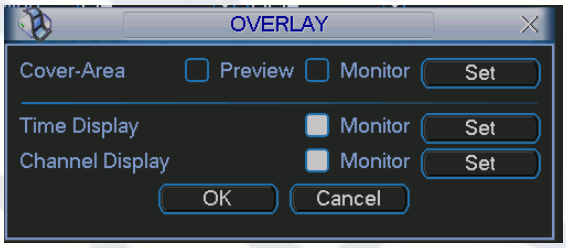

Figure 5-7

- **Cover area (Privacy mask):** Here is for you to set privacy mask section. You can drag you mouse to set proper section size. In one channel video, system max supports 4 zones in one channel.
- **Preview/monitor:** privacy mask has two types. Preview and Monitor. Preview means the privacy mask zone can not be viewed by user when system is in preview status. Monitor means the privacy mask zone can not be view by the user when system is in monitor status.
- **Time display:** You can select system displays time or not when you playback. Please click set button and then drag the title to the corresponding position in the screen.
- **Channel display:** You can select system displays channel number or not when you playback. Please click set button and then drag the title to the corresponding position in the screen.

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5.3.3 Schedule

Please refer to **Chapter 4.5** schedule.

5.3.4 RS232

RS232 interface is shown as below. There are five items. See Figure 5-8.

- **Function:** There are various devices for you to select. Console is for you to use the COM or mini-end software to upgrade or debug the program. The control keyboard is for you to control the device via the special keyboard. Transparent COM (adapter) is to connect to the PC to transfer data directly. Protocol COM is for card overlay function. Network keyboard is for you to use the special keyboard to control the device. PTZ matrix is to connect to the peripheral matrix control.
- **Baud rate:** You can select proper baud rate.
- **Data bit:** You can select proper data bit. The value ranges from 5 to 8.
- **Stop bit:** There are three values: 1/1.5/2.
- **Parity:** there are five choices: none/odd/even/space mark.
- **Function:** Console
- **Baud rate:**115200
- **Data bit:** 8
- **Stop bit:**1
- **Parity:** None

After completing all the setups please click save button, system goes back to the previous menu.

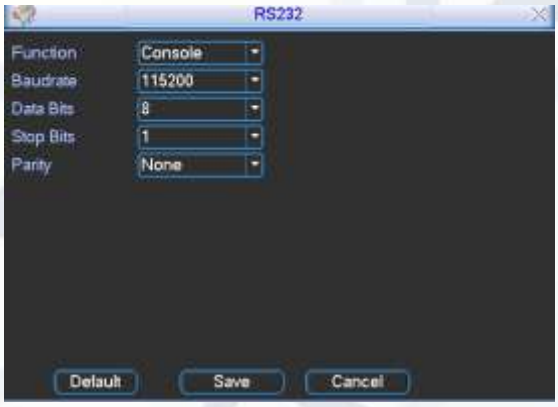

Figure 5-8

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5.3.5 Network

Here is for you to input network information. See Figure 5-9.

- **IP address:** Here you can input IP address.
- DHCP: It is to auto search IP. When enable DHCP function, you can not modify IP/Subnet mask /Gateway. These values are from DHCP function. If you have not enabled DHCP function, IP/Subnet mask/Gateway display as zero. You need to disable DHCP function to view current IP information. Besides, when PPPoE is operating, you can not modify IP/Subnet mask /Gateway.
- **TCP port:** Default value is 37777.
- **UDP port:** Default value is 37778.
- **HTTP port:** Default value is 80.
- **Max connection:** system support maximal 10 users. 0 means there is no connection limit.
- **Preferred DNS server:** DNS server IP address.
- **Alternate DNS server:** DNS server alternate address.
- **Transfer mode:** Here you can select the priority between fluency/video qualities.
- **LAN download:** System can process the downloaded data first if you enable this function. The download speed is 1.5X or 2.0X of the normal speed.

After completing all the setups please click save button, system goes back to the previous menu.

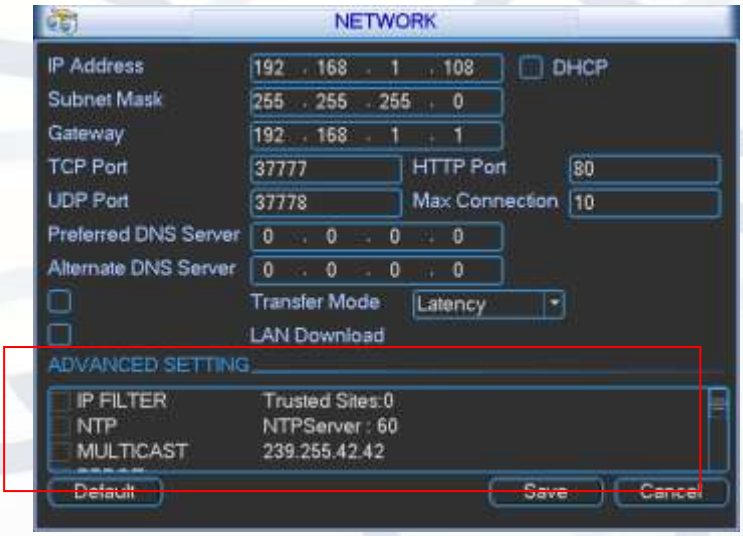

Figure 5-9

- **Advanced Setup**

Advanced setup interface is shown as in Figure 5-10. Please draw a circle to enable corresponding function and then double click current item to go to setup interface.

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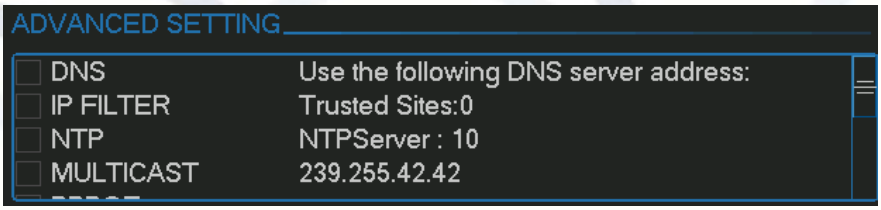

Figure 5-10

- **IP Filter**

IP filter interface is shown as in Figure 5-11. You can add IP in the following list. The list supports max 64 IP addresses.

Please note after you enabled this function, only the IP listed below can access current DVR.
If you disable this function, all IP addresses can access current DVR.

Figure 5-11

- **Multiple Cast Setup**

Multiple-cast setup interface is shown as in Figure 5-12.

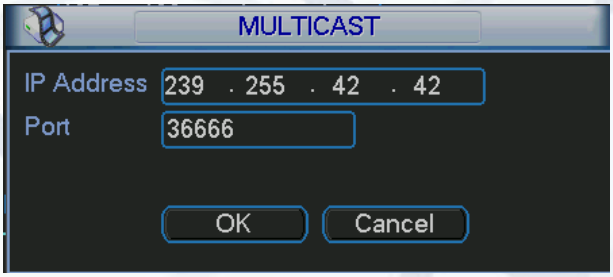

Figure 5-12

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Here you can set a multiple cast group. Please refer to the following sheet for detailed information.

- IP multiple cast group address
  -224.0.0.0-239.255.255.255

- "D" address space
- The higher four-bit of the first byte="1110"
- Reserved local multiple cast group address
- 224.0.0.0-224.0.0.255
- TTL=1 When sending out telegraph
- For example:
    - All systems in the sub-net
    - All routers in the sub-net
        - DVMRP router
        - OSPF router
- 224.0.0.13 PIMv2 router

- Administrative scoped addressees:
  239.0.0.0-239.255.255.255
- Private address space:
- Like the single broadcast address of RFC1918.It cannot be used in Internet transmission. It can be used for multiple cast broadcast in limited space.

Except the above mentioned addresses of special meaning, you can use other addresses. For example:

Multiple cast IP: 235.8.8.36
Multiple cast PORT: 3666.

After you logged in the Web, the Web can automatically get multiple cast address and add it to the multiple cast groups. You can enable real-time monitor function to view the view.
Please note multiple cast function applies to special series only.

- **PPPoE**

PPPoE interface is shown as in Figure 5-13.

Input "PPPoE name" and "PPPoE password" you get from your ISP (Internet service provider). Click save button, you need to restart to activate your configuration.

After rebooting, DVR will connect to internet automatically. The IP in the PPPoE is the DVR dynamic value. You can access this IP to visit the unit.

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Figure 5-13

- **NTP Setup**

You need to install SNTP server (Such as Absolute Time Server) in your PC first. In Windows XP OS, you can use command “net start w32time” to boot up NTP service.

NTP setup interface is shown as in Figure 5-14.

- Host IP: Input your PC address.
- Port: This series DVR supports TCP transmission only. Port default value is 123.
- Update interval: minimum value is 1. Max value is 65535. (Unit: minute)
- Time zone: select your corresponding time zone here.

Here is a sheet for your time zone setup:

City /Region Name	Time Zone
London	GMT+0
Berlin	GMT+1
Cairo	GMT+2
Moscow	GMT+3
New Deli	GMT+5
Bangkok	GMT+7
Beijing (Hong Kong)	GMT+8
Tokyo	GMT+9
Sydney	GMT+10
Hawaii	GMT-10
Alaska	GMT-9
Pacific Time(P.T)	GMT-8
American Mountain Time(M.T)	GMT-7
American Central Time(C.T)	GMT-6
American Eastern Time(E.T)	GMT-5
Atlantic Time	GMT-4
Brazil	GMT-3
Middle Atlantic Time	GMT-2

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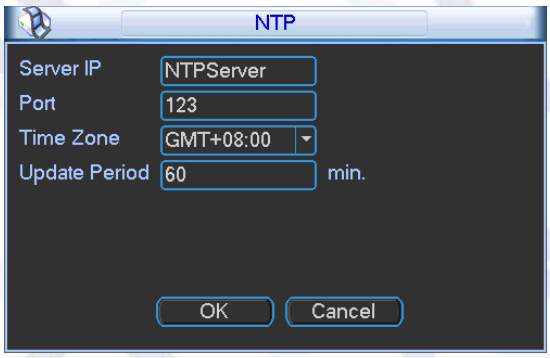

Figure 5-14

- **DDNS Setup**

DDNS setup interface is shown as in Figure 5-15.

You need a PC of fixed IP in the internet and there is the DDNS software running in this PC. In other words, this PC is a DNS (domain name server).

In network DDNS, please select DDNS type and highlight enable item. Them please input your PPPoE name you get from you IPS and server IP (PC with DDNS) . Click save button and then reboot system.

Click save button, system prompts for rebooting to get all setup activated.

After rebooting, open IE and input as below:

http：//(DDNS server IP)/(virtual directory name)/webtest.htm

e.g.: http：//10.6.2.85/DVR _DDNS/webtest.htm.)

Now you can open DDNSServer web search page.

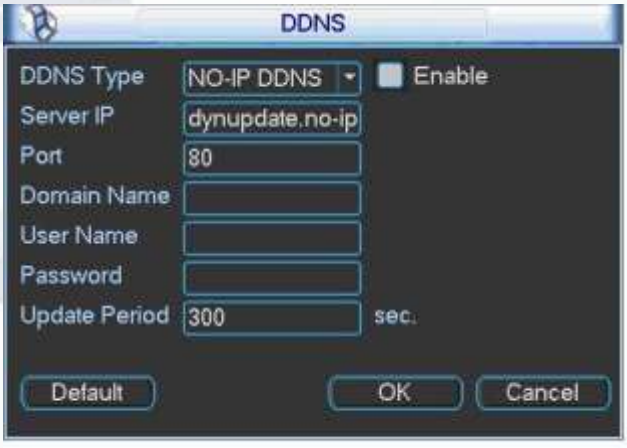

Figure 5-15

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Please note NNDS type includes: CN99 DDNS、NO-IP DDNS、Private DDNS、and Dyndns DDNS.

All the DDNS can be valid at the same time, you can select as you requirement.

Private DDNS function shall work with our private DDNS server and our Professional Surveillance Software (PSS).

- **FTP**

You need to download or buy FTP service tool (such as Ser-U FTP SERVER) to establish FTP service.

Please install Ser-U FTP SERVER first. From “start” -> “program” -> Serv-U FTP Server -> Serv-U Administator. Now you can set user password and FTP folder. Please note you need to grant write right to FTP upload user. See Figure 5-16.

Figure 5-16

You can use a PC or FTP login tool to test setup is right or not.

For example, you can login user ZHY to FTP://10.10.7.7 and then test it can modify or delete folder or not. See Figure 5-17.

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Internet Explorer
To log on to this FTP server, type a user name and password.
FTP server: 10.10.7.7
User name:
Password:
After you log on, you can add this server to your Favorites and return to it easily.
Log on anonymously
Log On
Cancel

Figure 5-17

System also supports upload multiple DVRs to one FTP server. You can create multiple folders under this FTP.

In Figure 5-9, select FTP and then double click mouse. You can see the following interface. See Figure 5-18.

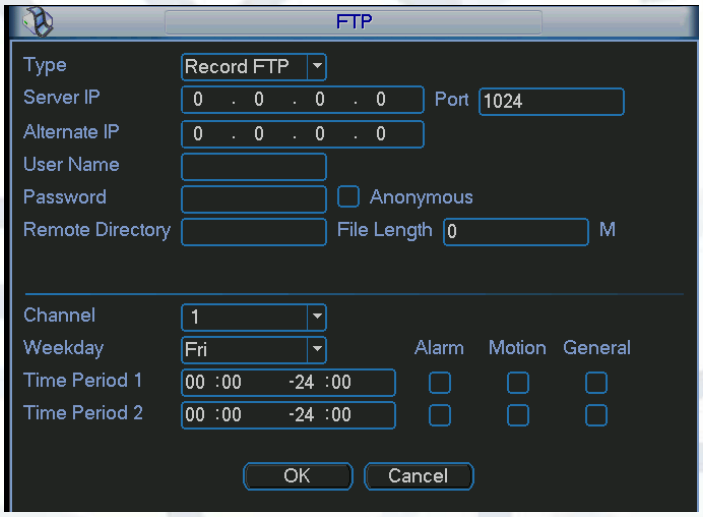

Figure 5-18

Please highlight the icon in front of Enable to activate FTP function.

Here you can input FTP server address, port and remote directory. When remote directory is null, system automatically create folders according to the IP, time and channel.

User name and password is the account information for you to login the FTP.

File length is upload file length. When setup is larger than the actual file length, system will upload the whole file. When setup here is smaller than the actual file length, system only uploads the set length and auto ignore the left section. When interval value is 0, system uploads all corresponding files.

After completed channel and weekday setup, you can set two periods for one each channel.

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- **Email**

Email interface is shown as in Figure 5-21. Please input sender mailbox SMTP server IP address, port, user name, and password and sender mailbox, interval. The title content supports Englsh character and Arabic number. Max 32-digit data.

System max supports three addresses and SSL encryption mailbox.

The interval value ranges from 0 to 3600 second. 0 means there is no interval. Once you input interval here, when alarm (motion detection or abnormal event and etc) activates the email, system will not send out the email immediately when an alarm occurred, system just sends out the email regularly according to the interval you set here. This function is very useful when there is a lot of alarms to be processed which may result in the mail server overload.

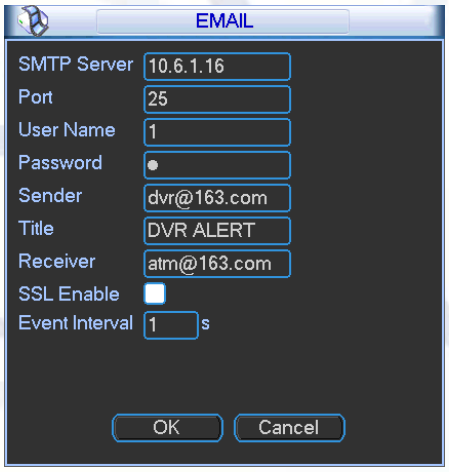

Figure 5-19

5.3.6 Alarm

Please refer to chapter 4.6 Alarm Setup and Activation.

5.3.7 Detect

Please refer to chapter 4.5 Detect.

5.3.8 Pan/Tilt/Zoom

The pan/tilt/zoom setup includes the following items. Please select channel first. See Figure 5-20.

- Protocol: Select corresponding PTZ protocol such as PELCOD.
- Address: input corresponding PTZ address.
- Baud rate: Select baud rate.
- Data bit: Select data bit.
- Stop bit: Select stop bit.
- Parity: There are three choices: none/odd/even.

After completed all the setups please click save button, system goes back to the previous menu. For detailed setup, please refer to chapter 4.9 preset/patrol/pattern/scan.

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Figure 5-20

5.3.9 Display

Display setup interface is shown as below. See Figure 5-21.

- **Transparency:** Here is for you to adjust transparency. The value ranges from 128 to 255.
- **Channel name:** Here is for you to modify channel name. System max support 25-digit (The value may vary due to different series). Please note all your modification here only applies to DVR local end. You need to open web or client end to refresh channel name.
- **Time display:** You can select to display time or not when system is playback.
- **Channel display:** You can select to channel name or not when system is playback.
- **Resolution:** There are four options: 1280×1024(default),1280×720,1024×768,800×600.
- **Display mode:** you can select from the dropdown list: self-adaptive/VGA/TV.
- **Enable tour:** activate tour function.
- **Interval:** System supports 1/4/8/9/16-window tour. Input proper interval value here. The value ranges from 5-120 seconds. In tour process, you can use mouse or click Shift to turn on window switch function. Stands for opening switch function, stands for closing switch function.
- **Monitor tour type:** System support 1/8-window tour.
- **Alarm tour type:** System support 1/8-window tour.

Please highlight icon to select the corresponding function.

After completing all the setups please click save button, system goes back to the previous menu.

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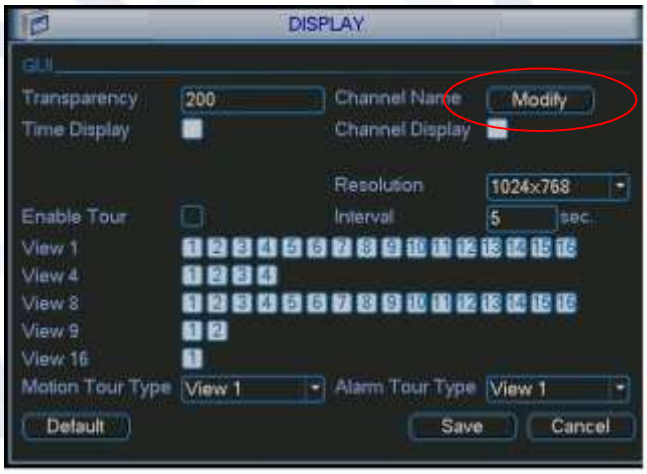

Figure 5-21

In Figure 5-21, click modify button after channel. You can see an interface is shown as in Figure 5-22. Please note all your modification here applies to local end only. You need to refresh web or client-end to get the latest channel name. System max support 25-digital character.

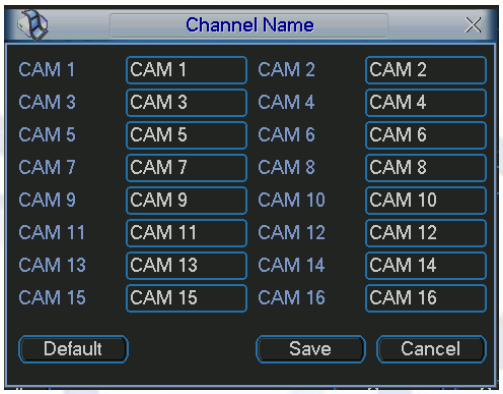

Figure 5-22

In tour mode, you can see the following interface. On the right corner, right click mouse or click shift button, you can control the tour. There are two icons: stands for enabling window switch and stands for disabling window function. See Figure 5-23.

Figure 5-23

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5.3.10 Default

Click default icon, system pops up a dialogue box. You can highlight to restore default factory setup. See Figure 5-24.

- Select all
- General
- Encode
- Schedule
- RS232
- Network
- Alarm
- Detect
- Pan/tilt/zoom
- Display
- Channel name

Please highlight icon to select the corresponding function.

After all the setups please click save button, system goes back to the previous menu.

Warning!
System menu color, language, time display mode, video format, IP address, user account will not maintain previous setup after selecting the default operation!

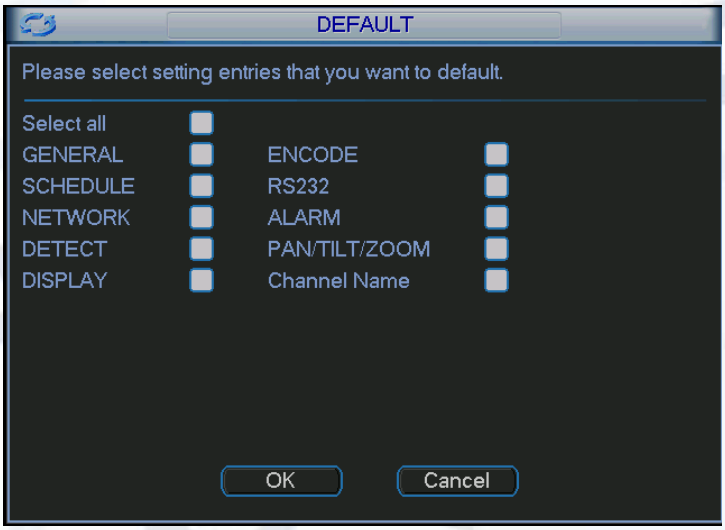

Figure 5-24

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5.4 Search

Please refer to chapter 4.3 Search.

5.5 Advanced

Double click advanced icon in the main window, the interface is shown as below. See Figure 5-25.There are total eight function keys: HDD management, alarm output, abnormity, manual record, account, auto maintenance, TV adjust and video matrix.

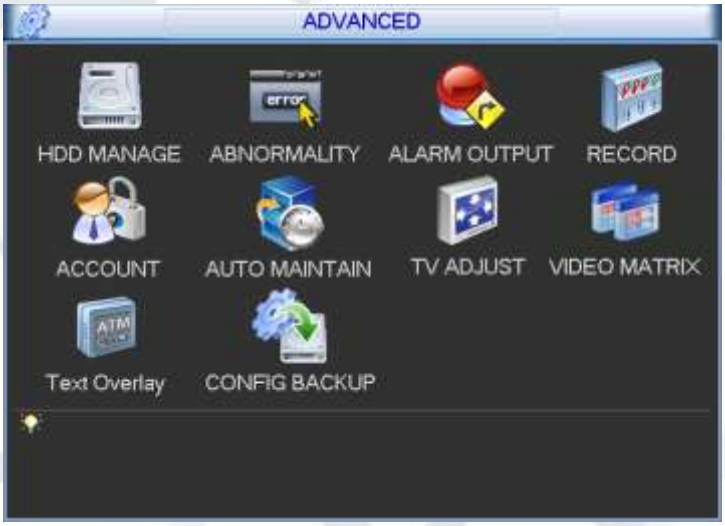

Figure 5-25

5.5.1 HDD Management

Here is for you to view and implement hard disk management. See Figure 5-26.

You can see current HDD type, status, capacity and record time. The operation includes the format/restore from error and change the HDD property. When HDD is working properly, system is shown as O. When HDD error occurred, system is shown as X.

You can select HDD mode from the dropdown list such as read-only or you can erase all data in the HDD.

Please note system needs to reboot to get all the modification activated.

IMPORTANT:
The read-write HDD is to store recorded files. The snapshot HDD is to save the snapshot images. You can search the file in the read-only HDD and read-write HDD. The files in the snapshot HDD can only be searched in the Web.

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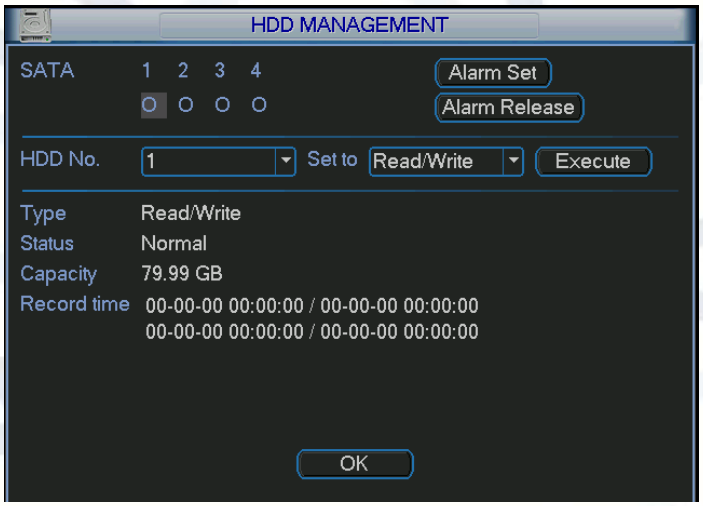

Figure 5-26

Click alarm set button, the interface is shown as below. See Figure 5-27. (This interface is just like the abnormity setup). Please refer to chapter 5.5.2 for detailed information.

Please highlight icon to select the corresponding function.

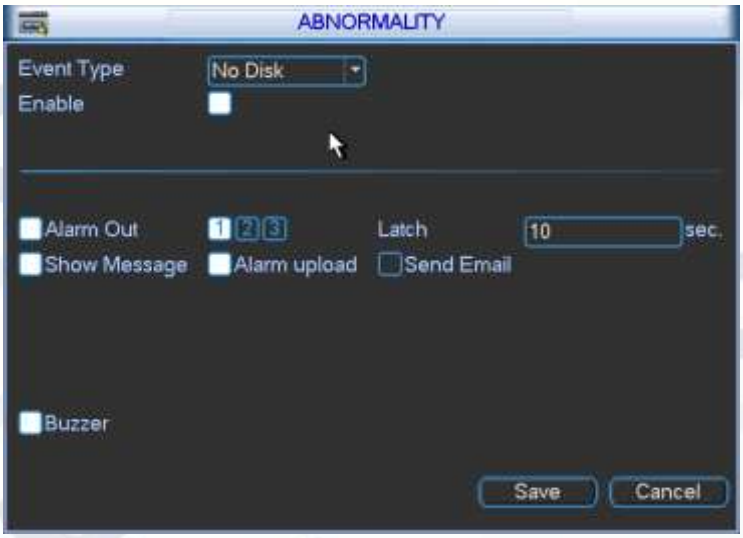

Figure 5-27

5.5.2 Abnormity

Abnormity interface is shown as in Figure 5-28.

- Event type: There are several options for you such as disk error, no disk, disconnection, IP conflict and etc.
- Alarm output: Please select alarm activation output port (multiple choices).
- Latch: Here you can set corresponding delaying time. The value ranges from 10s-300s. System automatically delays specified seconds in turning off alarm and activated output after external alarm cancelled.
- Show message: system can pop up the message in the local screen to alert you when alarm occurs.

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- Alarm upload: System can upload the alarm signal to the network (including alarm centre) if you enabled current function.
- Send email: System can send out email to alert you when alarm occurs.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when alarm occurs.

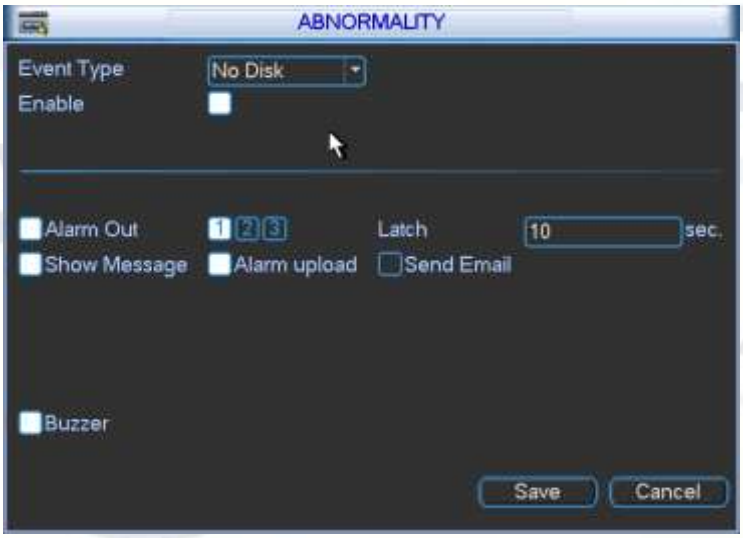

Figure 5-28

5.5.3 Alarm Output

Here is for you to set proper alarm output.

Please highlight icon to select the corresponding alarm output.

After all the setups please click OK button, system goes back to the previous menu. See Figure 5-29.

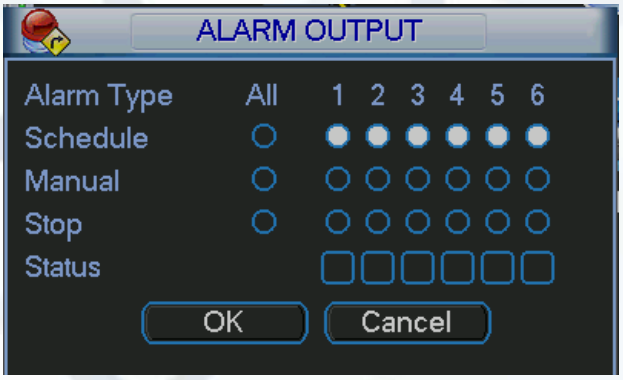

Figure 5-29

5.5.4 Manual Record

Please refer to chapter 4.2.2 manual record.

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5.5.5 Account

Here is for you to implement account management. See Figure 5-30. Here you can:

- Add new user
- Modify user
- Add group
- Modify group
- Modify password.

For account management please note:

- For the user account name and the user group, the string max length is 6-byte. The backspace in front of or at the back of the string is invalid. There can be backspace in the middle. The string includes the valid character, letter, number, underline, subtraction sign, and dot.
- System account adopts two-level management: group and user. No limit to group or user amount.
- For group or user management, there are two levels: admin and user.
- The user name and group name can consist of eight bytes. One name can only be used once. There are four default users: admin/888888/666666 and hidden user “default”. Except user 6666, other users have administrator right.
- Hidden user “default” is for system interior use only and can not be deleted. When there is no login user, hidden user “default” automatically login. You can set some rights such as monitor for this user so that you can view some channel view without login.
- One user should belong to one group. User right can not exceed group right.
- About reusable function: this function allows multiple users use the same account to login.

After all the setups please click save button, system goes back to the previous menu.

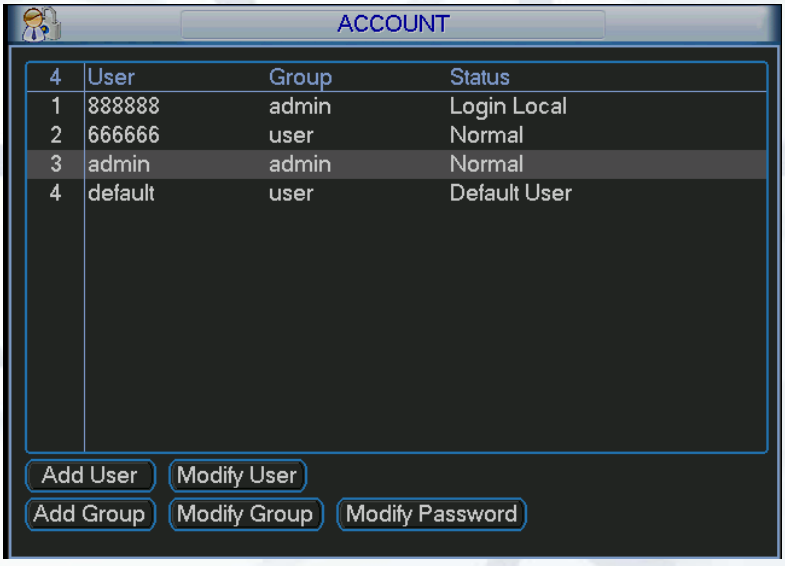

Figure 5-30

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- **Modify Password**

Click password button, the interface is shown as in Figure 5-31.

Here you can modify account password.

Please select the account from the dropdown list, input the old password and then input the new password twice. Click the Save button to confirm current modification.

For the users of user account right, it can modify password of other users.

Figure 5-31

- **Add/Modify Group**

Click add group button, the interface is shown as below. See Figure 5-32.

Here you can input group name and then input some memo information if necessary.

There are total 60 rights such as control panel, shut down, real-time monitor, playback, record, record file backup, PTZ, user account, system information view, alarm input/output setup, system setup, log view, clear log, upgrade system, control device and etc.

The modify group interface is similar to the Figure 5-32.

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Figure 5-32

- **Add/Modify User**

Click add user button, the interface is shown as in Figure 5-33.

Please input the user name, password, select the group it belongs to from the dropdown list. Then you can check the corresponding rights for current user.

For convenient user management, usually we recommend the general user right is lower than the admin account.

The modify user interface is similar to Figure 5-33.

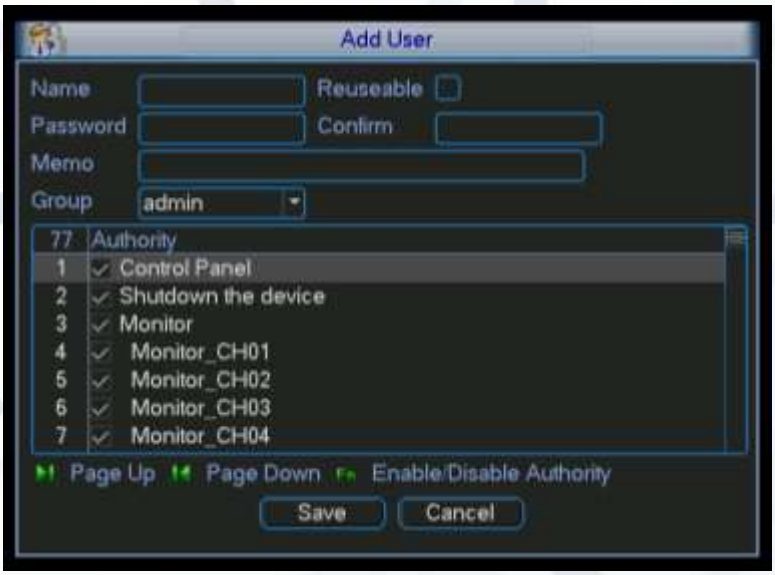

Figure 5-33

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5.5.6 Auto Maintain

Here you can set auto-reboot time and auto-delete old files setup. You can set to delete the files for the specified days. See Figure 5-34.

You can select proper setup from dropdown list.

After all the setups please click save button, system goes back to the previous menu.

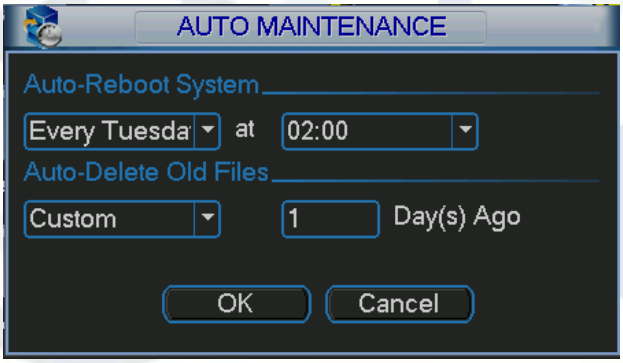

Figure 5-34

5.5.7 TV Adjust

Here is for you to adjust TV output setup. See Figure 5-35.

Please drag slide bar to adjust each item.

After all the setups please click OK button, system goes back to the previous menu.

Figure 5-35

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5.5.8 Video Matrix

Here you can set matrix output channel and its interval. See Figure 5-36.

VIDEO MATRIX
MATRIX CONTROL
Video Output 1
All 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
Interval 5 sec.
Note:The linkage setting of Alarm and Motion Detect is in the page of ALARM and DETECT
Default
Save
Cancel

Figure 5-36

5.5.9 Card Overlay

The card overlay function is for financial areas. It includes Sniffer, information analysis and title overlay function. The Sniffer mode includes COM and network.

- **COM Type**

The COM interface is shown as below. See Figure 5-37.

- Protocol: Please select from the dropdown list.
- Setting: Click COM setting button, the interface is shown as in RS232 interface. Please refer to Chapter 5.3.4 RS232.
- Overlay channel: Please select the channel you want to overlay the card number.
- Overlay mode: There are two options: preview and encode. Preview means overlay the card number in the local monitor video. Encode means overlay the card number in the record file.
- Overlay Position: Here you can select the proper overlay position from the dropdown list.

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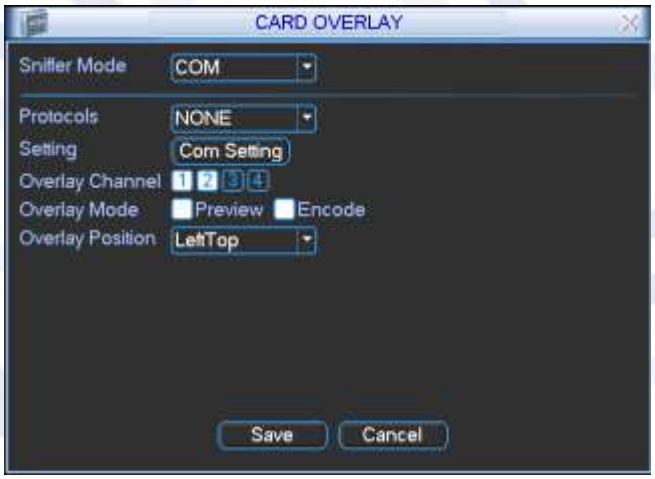

Figure 5-37

- **Network Type**

The network type interface is shown as below. See Figure 5-38.

Here we take the ATM/POS protocol to continue.

There are two types: with or without the protocol according to client's requirements.

With the protocol:
For ATM/POS with the protocol, you just need to set the source IP, destination IP (sometimes you need to input corresponding port number).

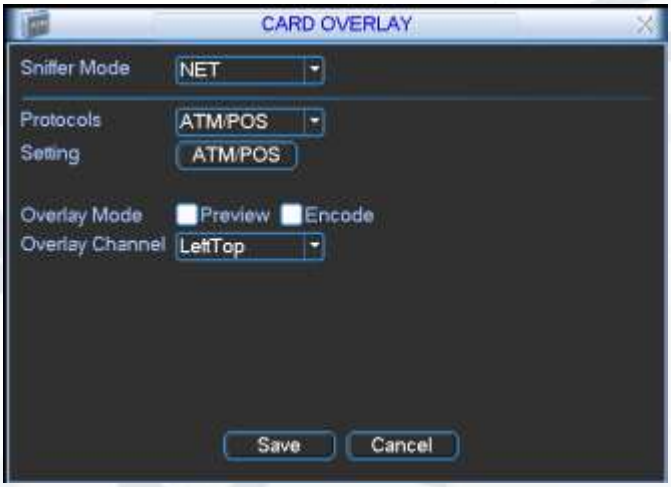

Figure 5-38

Without the protocol:
For the ATM/POS without the protocol, the interface is shown as in Figure 5-39.

Source IP refers to host IP address that sends out information (usually it is the device host.)

Destination IP refers to other systems that receive information.

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Usually you do not need to set source port and target port.

There are total four groups IP. The record channel applies to one group (optional) only.

Six frame ID groups verification can guarantee information validity and legal.

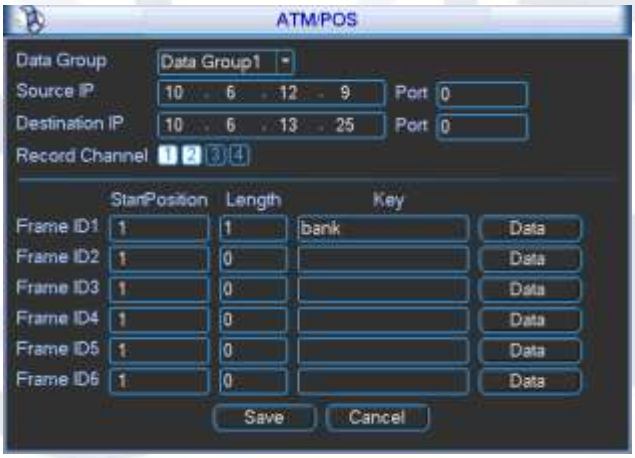

Figure 5-39

Click Data button you can see an interface is shown as in Figure 5-40.

Here you can set offset value, length, title according to your communication protocol and data package. .

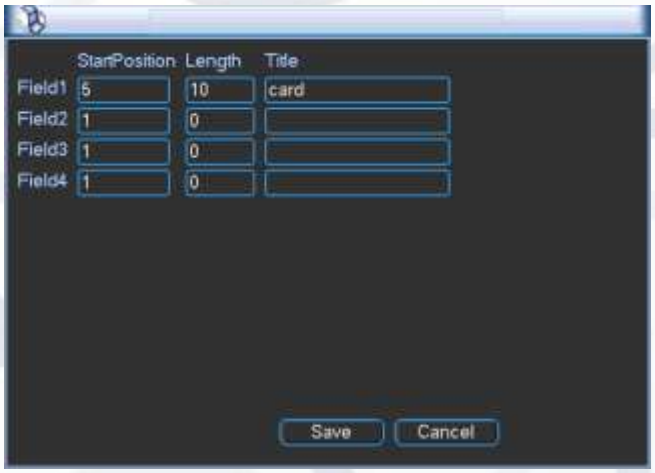

Figure 5-40

5.5.10 Config File Backup

The configuration file backup interface is shown as below. See Figure 5-41.

This function allows you to copy current system configuration to other devices.

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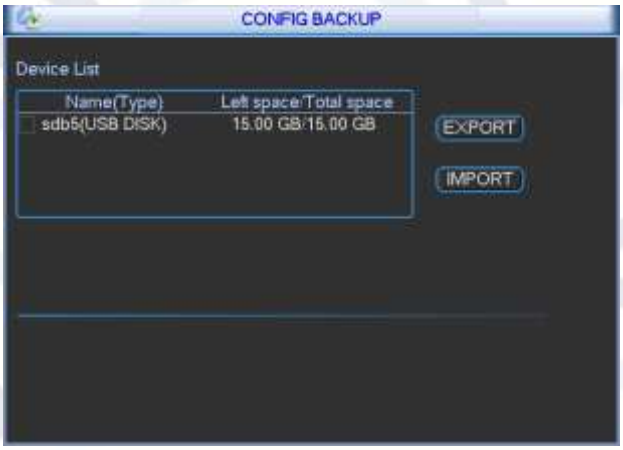

Figure 5-41

5.6 Information

Here is for you to view system information. There are total five items: HDD (hard disk information), BPS (data stream statistics), Log and version, and online user. See Figure 5-42.

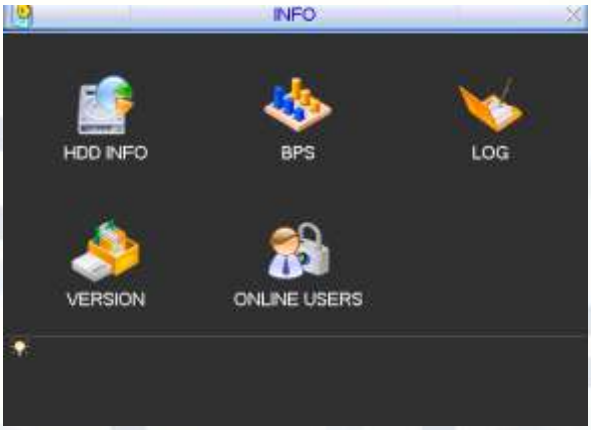

Figure 5-42

5.6.1 HDD Information

Here is to list hard disk type, total space, free space, video start time and status. See See Figure 5-43. ‘○’ means current HDD is normal. ‘**X**’ means there is error. ‘**-**‘ means there is no HDD.

If disk is damaged, system shows as “**?**”. Please remove the broken hard disk before you add a new one.

Once there is a hard disk confliction, please check hard disk time and system time is the same or not. Please go to setting then general to modify system time. At last, reboot the system to solve this problem.

After system booted up, if there is any confliction, system goes to HDD information interface directly. Please note, system does not ask you to deal with it forcedly.

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When HDD confliction occurs, you can check system time and HDD time are identical or not. If they are not identical, please go to General (Chapter 5.3.1) to adjust system time or go to HDD

Management (Chapter 5.5.1) to format HDD and then reboot the DVR.

Figure 5-43

Tip: Please click Fn button or left click mouse to view HDD record time and HDD type and time.

5.6.2 BPS

Here is for you to view current video data stream (KB/s) and occupied hard disk storage (MB/h). See Figure 5-44.

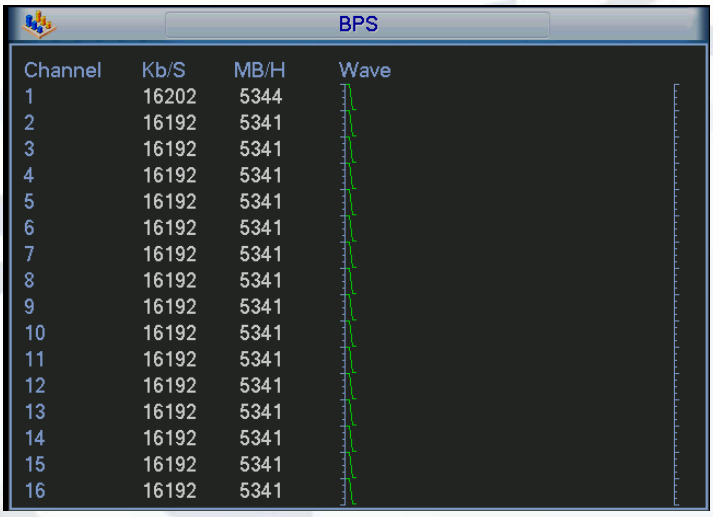

Figure 5-44

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5.6.3 Log

Here is for you to view system log file. System lists the following information. See Figure 5-45.

Log types include system operation, configuration operation, data management, alarm event, record operation, log clear and etc.

Pleased select start time and end time, then click search button. You can view the log files. Please page up/down button to view if there are more than ten files.

System also supports the backup function; you can click the backup button to save the log files in the USB devices.

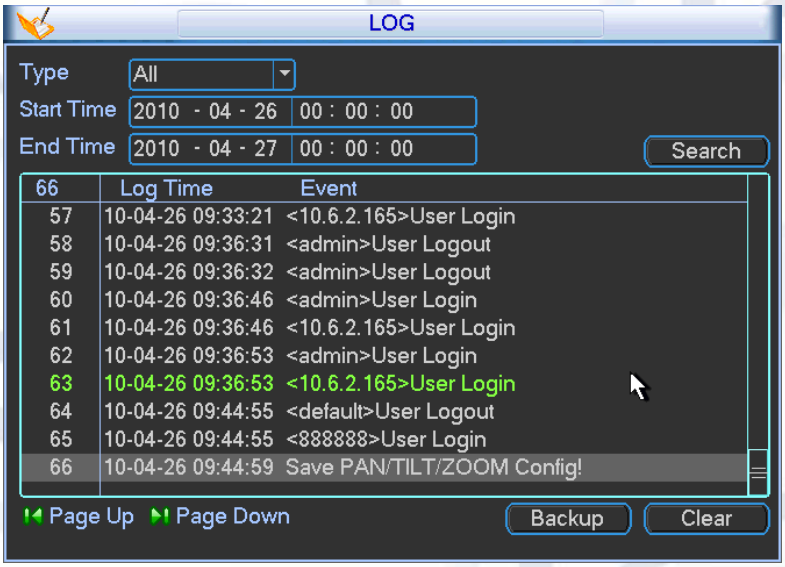

Figure 5-45

5.6.4 Version

Here is for you to view some version information. See Figure 5-46.

- Channel
- Alarm in
- Alarm out
- System version:
- Build Date

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VERSION
Channels 16
Alarm In 16
Alarm Out 6
System 2.606.0000.0
Build Date 2009-05-18
UPGRADE
If you need to upgrade system now,please insert USB upgrade disk,then press the start button to start upgrade.Don't shut down the power during upgrade!
Start

Figure 5-46

5.6.5 Online Users

Here is for you manage online users. See Figure 5-47.

You can disconnect one user or block one user if you have proper system right. Max disconnection setup is 65535 seconds.

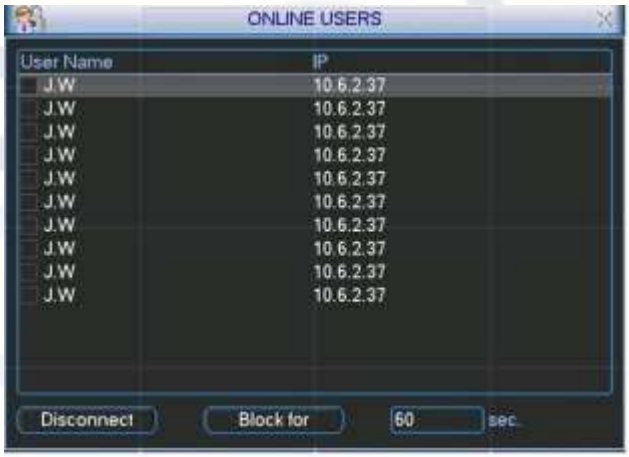

Figure 5-47

5.7 Shutdown

Double click shutdown button, system pops up a dialogue box for you to select. See Figure 5-48

- Logout menu user: log out menu. You need to input password when you login the next time.
- Restart application: reboot DVR.
- Shutdown: system shuts down and turns off power.
- Restart system: system begins rebooting.
- Switch user: you can use another account to log in.

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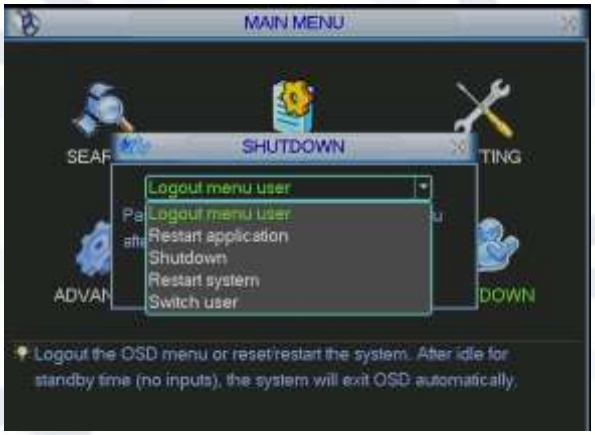
MAIN MENU
SHUTDOWN
Logout menu user
Logout menu user
Restart application
Shutdown
Restart system
Switch user
Logout the OSD menu or reset/restart the system. After idle for standby time (no inputs), the system will exit OSD automatically.

Figure 5-48

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6 Auxiliary Menu

6.1 Go to Pan/Tilt/Zoom Menu

In the one-window surveillance mode, right click mouse (click “fn” Button in the front panel or click AUX key in the remote control). The interface is shown as below: See Figure 6-1.

Figure 6-1

Click Pan/Tilt/Zoom, the interface is shown as in Figure 6-2.

Here you can set the following items:

- Zoom
- Focus
- Iris

Please click icon and to adjust zoom, focus and Iris.

Figure 6-2

In Figure 6-2, please click direction arrows (See Figure 6-3) to adjust PTZ position. There are totally eight direction arrows. (Please note there are only four direction arrows in DVR front panel.)

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Figure 6-3

6.1.1 3D Intelligent Positioning Key

In the middle of the eight direction arrows, there is a 3D intelligent positioning key. See Figure 6-4.

Please make sure your protocol supports this function and you need to use mouse to control.

Click this button, system goes back to the single screen mode. Drag the mouse within the screen to adjust section size.

Figure 6-4

Here is a sheet for you reference.

Name	Function Key	Function	Shortcut Key	Function Key	Function	Shortcut key
Zoom		Near			Far	
Focus		Near	⏴		Far	⏵
Iris		Close	⏸◀		Open	⏵⏸

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6.2 Preset /Patrol / Pattern /Border Function

In Figure 6-2 click the set button. The interface is shown as below:

Here you can set the following items:

- Preset
- Patrol
- Pattern
- Border

Figure 6-5

In Figure 6-2, click page switch button, you can see an interface as in Figure 6-6.

Here you can activate the following functions:

- Preset
- Tour(Patrol)
- Pattern
- Auto scan
- Auto pan
- Flip
- Page Switch

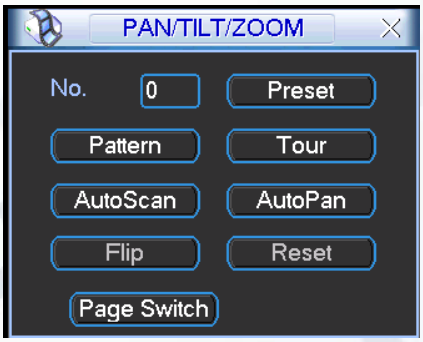

Figure 6-6

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6.2.1 Preset Setup

Note: The following setups are usually operated in the Figure 6-2, Figure 6-5 and Figure 6-6.

In Figure 6-2, use the eight directional arrows to adjust camera to the proper position.

In Figure 6-5, click preset button and input preset number. The interface is shown as in Figure 6-7.

Add this preset to one patrol number

Figure 6-7

6.2.2 Activate Preset

In Figure 6-6 please input preset number in the No. blank, and click preset button.

6.2.3 Patrol Setup

In Figure 6-5, click patrol button. The interface is shown as in Figure 6-8.
Input preset number and then add this preset to one patrol.

Figure 6-8

6.2.4 Activate Patrol

In Figure 6-6, input patrol number in the No. blank and click patrol button

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6.2.5 Pattern Setup

In Figure 6-5, click pattern button and then click begin button. The interface shows like Figure 6-9.

Please go to Figure 6-2 to modify zoom, focus, and iris. Go back to Figure 6-9 and click end button. You can memorize all these setups as pattern 1.

Figure 6-9

6.2.6 Activate Pattern Function

In Figure 6-6 input mode value in the No. blank, and click pattern button.

6.2.7 Border Setup

In Figure 6-5, click border button. The interface is shown as in Figure 6-10.

Please go to Figure 6-2, use direction arrows to select camera left limit, and then please go to Figure 6-10 and click left limit button.

Repeat the above procedures to set right limit.

Figure 6-10

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6.2.8 Activate Border Function

In Figure 6-6, click auto scan button, the system begins auto scan. Correspondingly, the auto scan button changes to stop button.

Click stop button to terminate scan operation.

6.2.9 Flip

In Figure 6-6, click page switch button, you can see an interface is shown as below. See Figure 6-11. Here you can set auxiliary function.

Click page switch button again, system goes back to Figure 6-2.

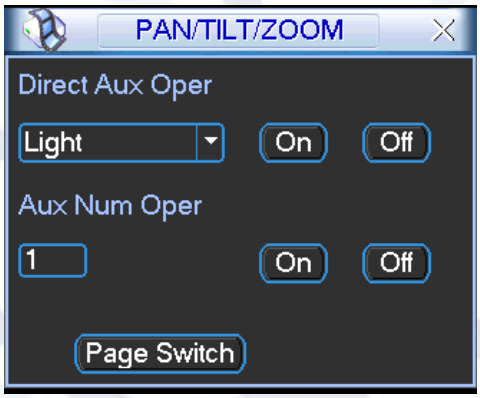

Figure 6-11

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7 WEB OPERATION

7.1 Network Connection

Before web operation, please check the following items:

- Network connection is right
- DVR and PC network setup is correct. Please refer to network setup(Setup ->Network)
- Use order ping ***.***.***.*** (* DVR IP address) to check connection is OK or not. Usually the return TTL value should be less than 255.
- Open the IE and then input DVR IP address.
- System can automatically download latest web control and the new version can overwrite the previous one.
- If you want to un-install the web control, please run *uninstall webrec3.0.bat*. Or you can go to C:\Program Files\webrec to remove single folder. Please note, before you un-install, please close all web pages, otherwise the un-installation might result in error.
- Current series product supports various browsers such as Safari, firebox browser, Google browser. Device only support 1-channel monitor on the Apple PC.

7.2 Login

Open IE and input DVR address in the address column. For example, if your DVR IP is 10.10.3.16, then please input http:// 10.10.3.16 in IE address column. See Figure 7-1.

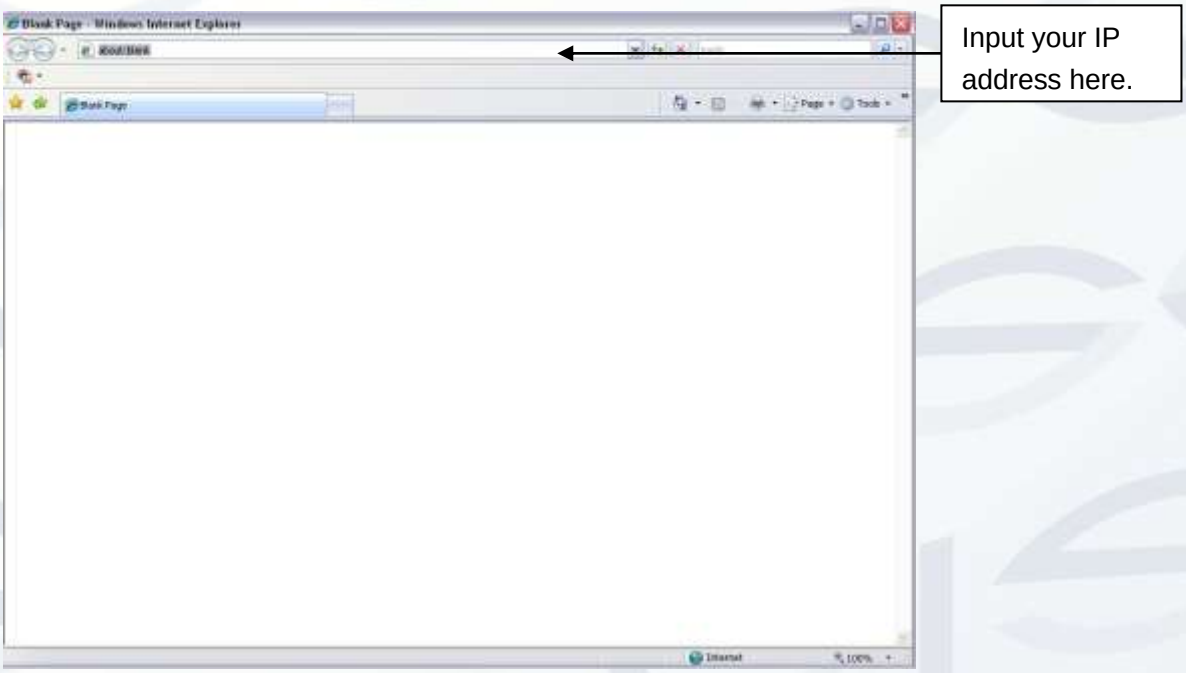

Figure 7-1

System pops up warning information to ask you whether install webrec.cab control or not. Please click yes button.

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If you can't download the ActiveX file, please modify your settings as follows. See Figure 7-2.

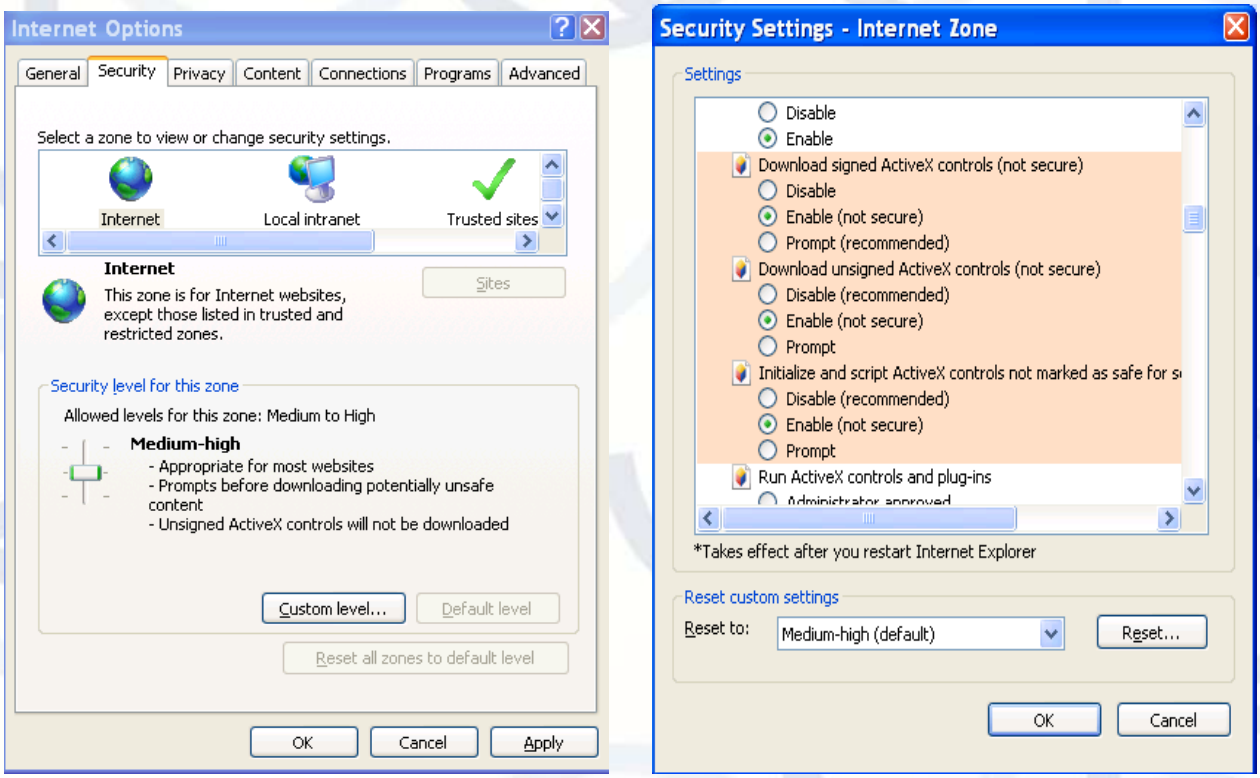

Figure 7-2

After installation, the interface is shown as below. See Figure 7-3.
Please input your user name and password.

Default factory name is **admin** and password is **admin**.

Then you can select the login mode: LAN and WAN.

Note: For security reasons, please modify your password after you first login.

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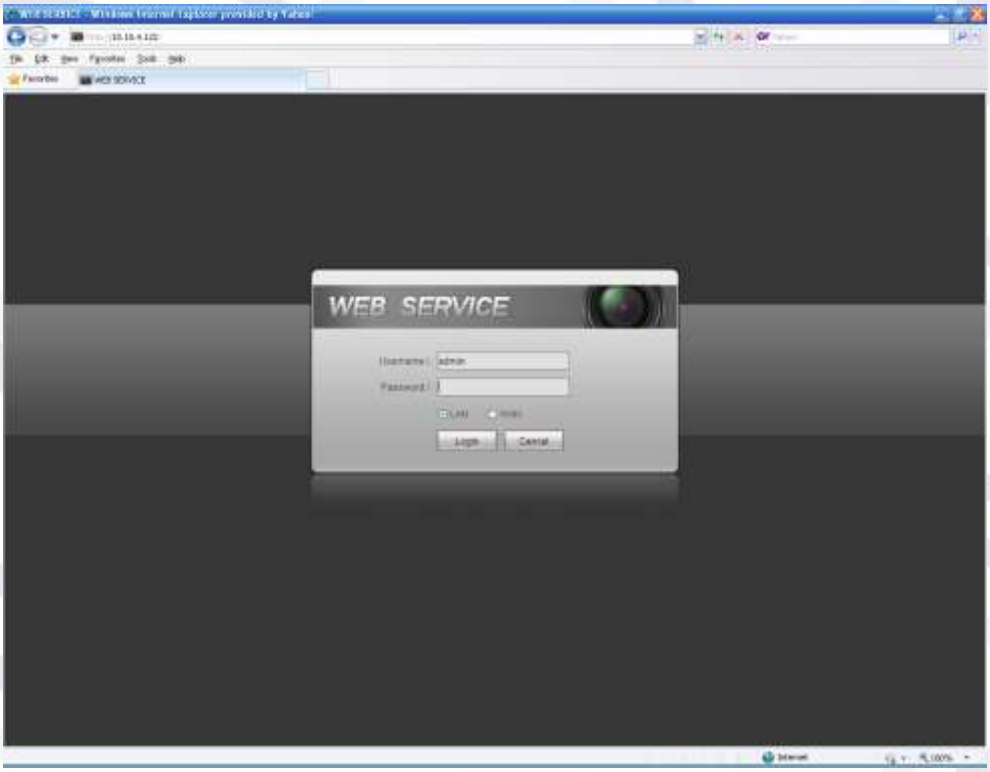

Figure 7-3

7.3 LAN Mode

For the LAN mode, after you logged in, you can see the main window. See Figure 7-9. This main window can be divided into the following sections.

- **Section 1:** there are five function buttons: Live（chapter 7.4 ）, setup (chapter 7.8), search (chapter 7.9), alarm (chapter 7.10), and logout (chapter 7.11).
- **Section 2:** There are channel number and one button: Start all. Start all button is to enable/disable all-channel real-time monitor. Click it the button becomes yellow. See Figure 7-4.

Figure 7-4

Please refer to Figure 7-5 for main stream and extra stream switch information.

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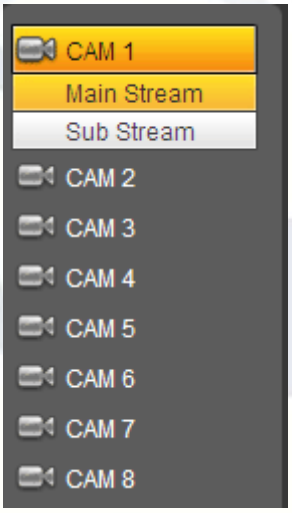

Figure 7-5

- Section 3: Start dialogue button.

You can click this button to enable audio talk. Click 【▼】 to select bidirectional talk mode.

There are four options: DEFAULT，G711a，G711u and PCM. After you enable the bidirectional talk, the Start talk button becomes End Talk button and it becomes yellow. See Figure 7-6.

Note: the audio input port from the device to the client-end is using the first channel audio input port. During the bidirectional talk process, system will not encode the audio data from the 1-channel.

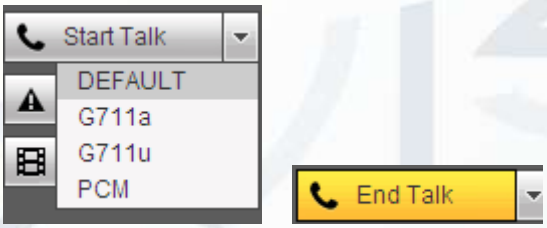

Figure 7-6

- Section 4: Instant record button. Click it, the button becomes yellow and system begins manual record. See Figure 7-7. Click it again, system restores previous record mode..

Figure 7-7

- Section 5: Local play button.

The Web can playback the saved (Extension name is '.dav') files in the PC-end.

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Click local play button, system pops up the following interface for you to select local play file. See Figure 7-8.

Figure 7-8

- **Section 6:** From the left to the right ,you can see video quality/fluency/ full screen/1-window/4-window/6-window/8-window/9-window/13-window/16-window/20-window/25-window/36-window.. You can set video fluency and real-time feature priority.
- **Section 7:** PTZ operation panel. Please refer to chapter 7.5 for detailed information.
- **Section 8:** Image setup and alarm setup. Please refer to chapter 7.6 for detailed information.

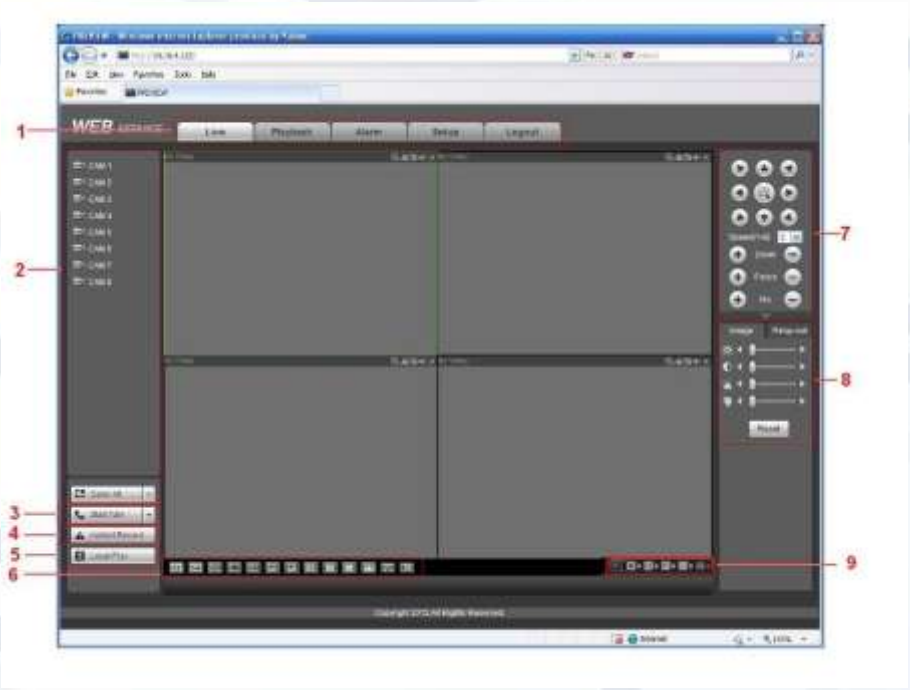

Figure 7-9

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7.4 Real-time Monitor

In section 2, left click the channel name you want to view, you can see the corresponding video in current window.

On the top left corner, you can view device IP, channel number, network monitor bit stream. See Figure 7-10.

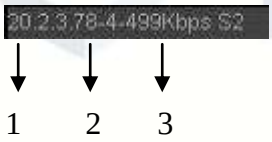

Figure 7-10

On the top right corer, there are six Action buttons. See Figure 7-11.

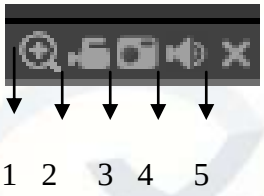

Figure 7-11

- **1: Digital zoom:** Click this button and then left drag the mouse in the zone to zoom in. right click mouse system restores original status.
- **2: Local record:** When you click local record button, the system begins recording and this button becomes highlighted. You can go to system folder RecordDownload to view the recorded file.
- **3: Snapshot picture:** You can snapshoot important video. All images are memorized in system client folder PictureDownload (default).
- **4: Audio:**Turn on or off audio.(It has no relationship with system audio setup)
- **5:** Close video.

7.5 PTZ

Before PTZ operation, please make sure you have properly set PTZ protocol.

There are eight direction keys. In the middle of the eight direction keys, there is a 3D intelligent positioning key.

Click 3D intelligent positioning key, system goes back to the single screen mode. Drag the mouse in the screen to adjust section size. It can realize PTZ automatically.

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Please refer to the following sheet for PTZ setup information.

Parameter	Function
Scan	● Select Scan from the dropdown list. ● Click Set button, you can set scan left and right limit. ● Use direction buttons to move the camera to you desired location and then click left limit button. Then move the camera again and then click right limit button to set a right limit.
Preset	● Select Preset from the dropdown list. ● Turn the camera to the corresponding position and Input the preset value. Click Add button to add a preset,.
Tour	● Select Tour from the dropdown list. ● Input preset value in the column. Click Add preset button, you have added one preset in the tour. ● Repeat the above procedures you can add more presets in one tour. ● Or you can click delete preset button to remove one preset from the tour.
Pattern	● Select Pattern from the dropdown list. ● You can input pattern value and then click Start button to begin PTZ movement such as zoom, focus, iris, direction and etc. Then you can click Add button to set one pattern.
Aux	● Please input the corresponding aux value here. ● You can select one option and then click AUX on or AUX off button.
Light and wiper	You can turn on or turn off the light/wiper.

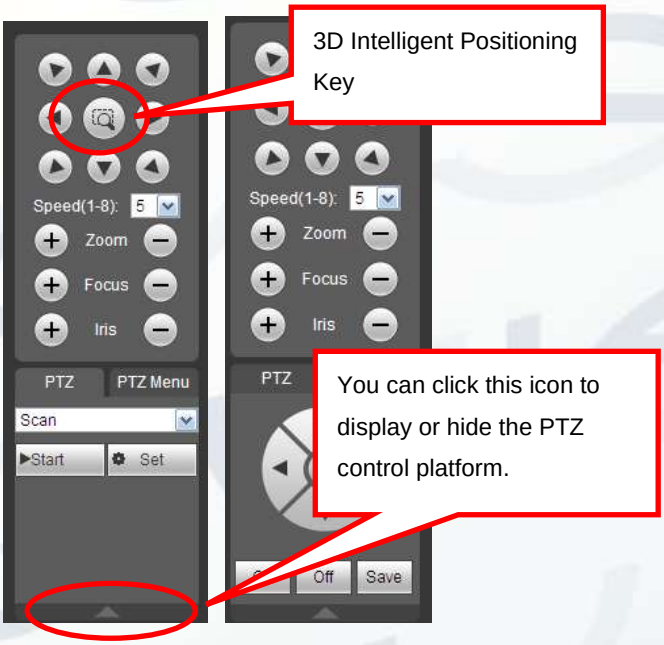

Figure 7-12

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7.6 Image/Relay-out

Select one monitor channel video and then click Image button in section 8, the interface is shown as Figure 7-13.

7.6.1 Image

Here you can adjust its brightness, contrast, hue and saturation. (Current channel border becomes green).

Or you can click Reset button to restore system default setup.

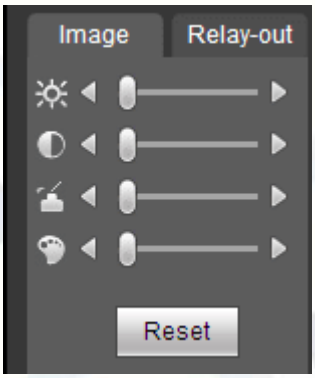

Figure 7-13

7.6.2 Relay output

Here you can select alarm output channel, the select channel alarm mode becomes manual and alarm is enabled. See Figure 7-14.

Figure 7-14

7.6.3 Multiple-channel preview

System allows you to preview several channels on one channel. It supports 1/4/8/9-window. See Figure 7-15.

Please note only the product of this icon can support current function.

Figure 7-15

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7.7 WAN Login

In WAN mode, after you logged in, the interface is shown as below. See Figure 7-16:

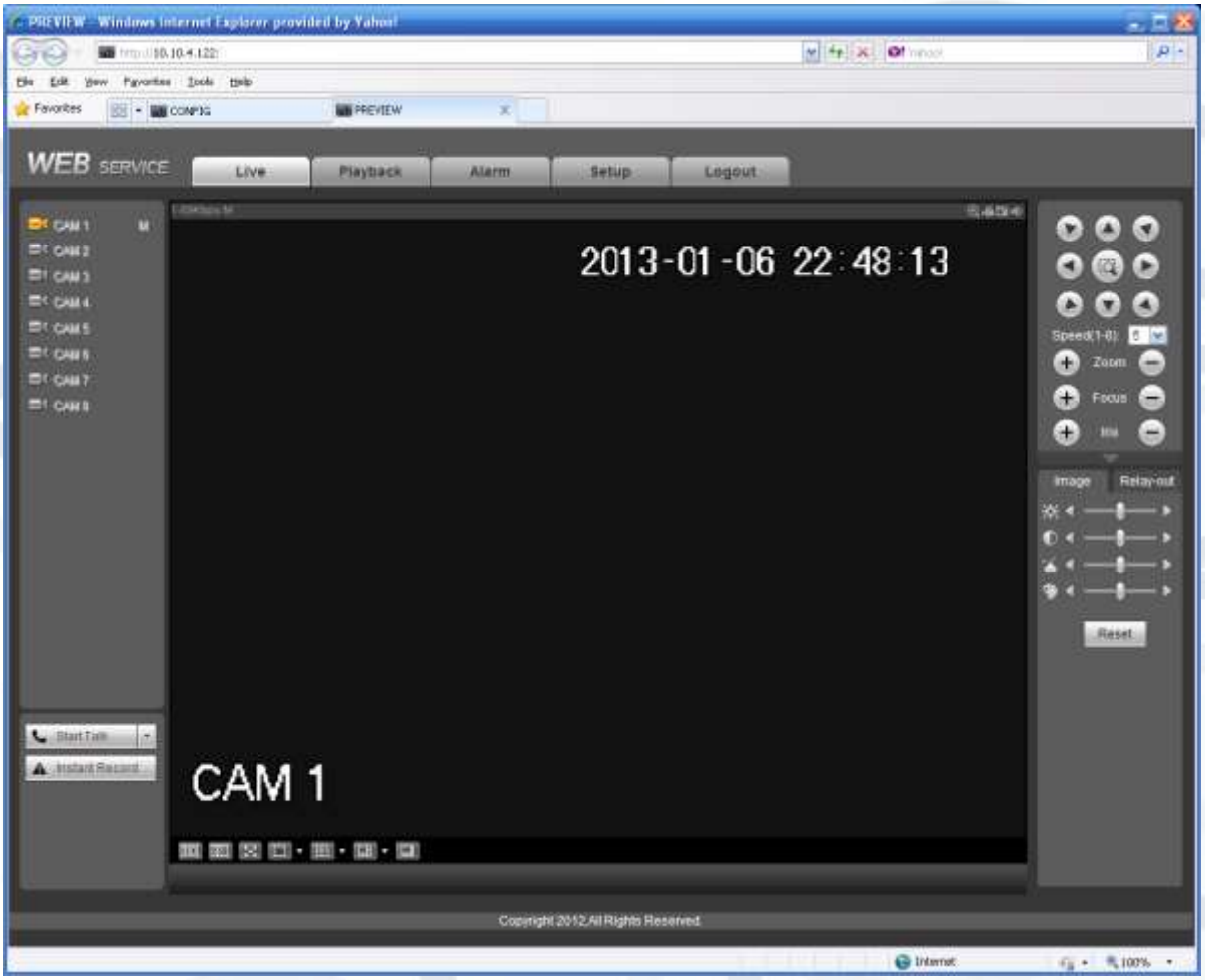

Figure 7-16

Please refer to the following contents for LAN and WAN login difference.

In the WAN mode, system opens the main stream of the first channel to monitor by default. The open/close button on the left pane is null.

You can select different channel and different monitor mode at the bottom of the interface. See Figure 7-17.

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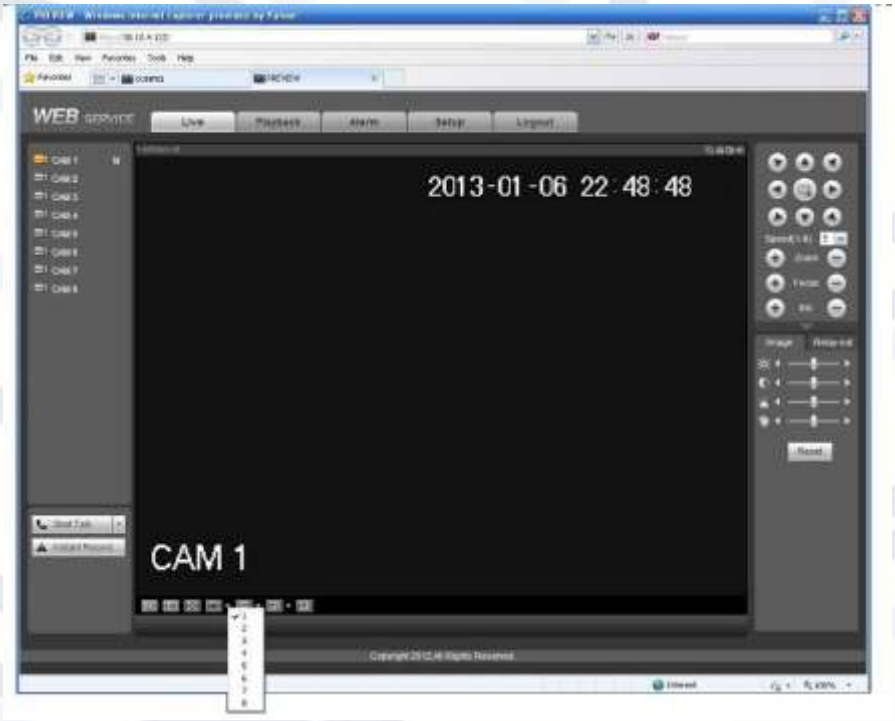

Figure 7-17

Important: The window display mode and the channel number are by default. For example, for the 16-channel, the max window split mode is 16.

Multiple-channel monitor, system adopts extra stream to monitor by default. Double click one channel, system switches to single channel and system uses main stream to monitor. You can view there are two icons at the left top corner of the channel number for you reference. M stands for main stream. S stands for sub stream (extra stream).

If you login via the WAN mode, system does not support alarm activation to open the video function in the Alarm setup interface.

Important

- For multiple-channel monitor mode, system adopts extra stream to monitor by default. You can not modify manually. All channels are trying to synchronize. Please note the synchronization effect still depends on your network environments.
- For bandwidth consideration, system can not support monitor and playback at the same time. System auto closes monitor or playback interface when you are searching setup in the configuration interface. It is to enhance search speed.

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7.8 Setup

7.8.1 Channel

7.8.1.1 Conditions

Here you can view device property information. The setups become valid immediately after you set. See Figure 7-18.

Figure 7-18

Please refer to the following sheet for detailed information:

Parameter	Function
Channel	Please select a channel from the dropdown list.
Period	It divides one day (24 hours) to two periods. You can set different hue, brightness, and contrast for different periods.
Hue	It is to adjust monitor video brightness and darkness level. The default value is 50. The bigger the value is, the large the contrast between the bright and dark section is and vice versa.
Brightness	It is to adjust monitor window brightness. The default value is 50. The larger the number is , the bright the video is. When you input the value here, the bright section and the dark section of the video will be adjusted accordingly. You can use this function when the whole video is too dark or too bright. Please note the video may become hazy if the value is too high. The value ranges from 0 to 100.The recommended value ranges from 40 to 60.

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Contrast	This is to adjust monitor window contrast. The value ranges from 0 to 100. The default value is 50. The larger the number is, the higher the contrast is. You can use this function when the whole video bright is OK but the contrast is not proper. Please note the video may become hazy if the value is too low. If this value is too high, the dark section may lack brightness while the bright section may over exposure .The recommended value ranges from 40 to 60.
Saturation	This is to adjust monitor window saturation. The value ranges from 0 to 100. The default value is 50. The larger the number is, the strong the color is. This value has no effect on the general brightness of the whole video. The video color may become too strong if the value is too high. For the grey part of the video, the distortion may occur if the white balance is not accurate. Please note the video may not be attractive if the value is too low. The recommended value ranges from 40 to 60.
Gain	The gain adjust is to set the gain value. The smaller the value is, the low the noise is. But the brightness is also too low in the dark environments. It can enhance the video brightness if the value is high. But the video noise may become too clear.
White level	This is to enhance the video effect.
Color mode	It includes several modes such as standard, color. You can select corresponding color mode here, you can see hue, brightness, and contrast and etc will adjust accordingly.

7.8.2 Video and Audio

- **Encode**

The encode interface is shown as below. See Figure 7-19:

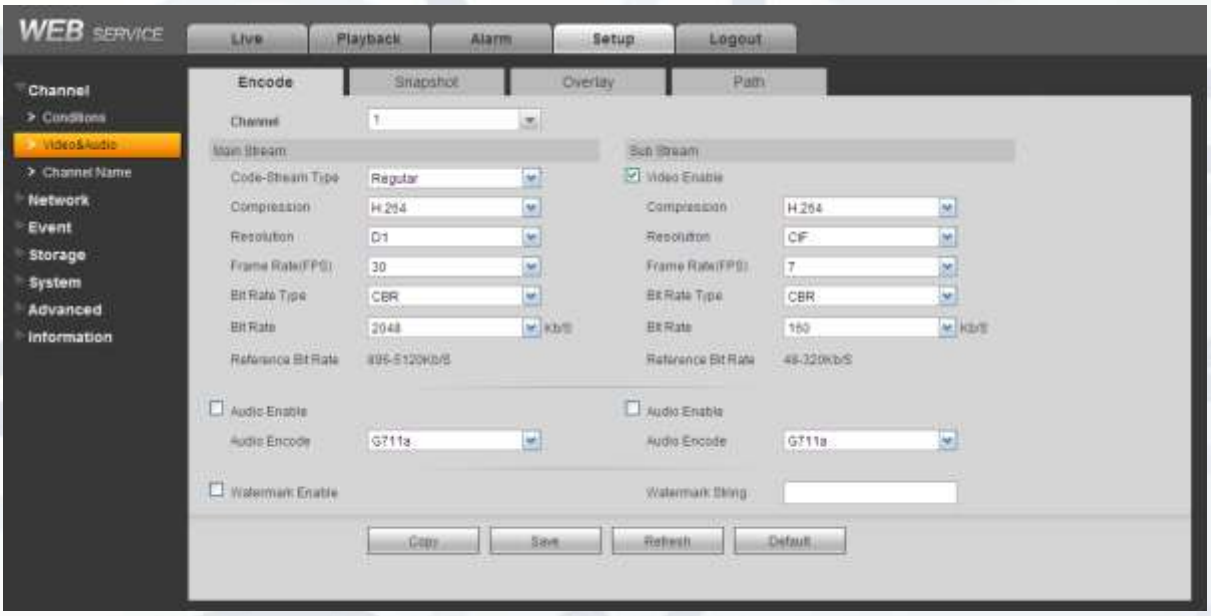

Figure 7-19

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Please refer to the following sheet for detailed information:

Parameter	Function
Channel	Please select a channel from the dropdown list.
Video enable	Check the box here to enable extra stream video. This item is enabled by default.
Code stream type	It includes main stream, motion stream and alarm stream. You can select different encode frame rates form different recorded events. System supports active control frame function (ACF). It allows you to record in different frame rates. For example, you can use high frame rate to record important events, record scheduled event in lower frame rate and it allows you to set different frame rates for motion detection record and alarm record.
Compression	The main bit stream supports H.264. The extra stream supports H.264, MJPG.
Resolution	System supports various resolutions, you can select from the dropdown list. The main stream supports D1/HD1/2CIF/CIF/QCIF and the extra stream supports CIF/QCIF. Please note the option may vary due to different series.
Frame Rate	PAL：1～25f/s；NTSC：1～30f/s.
Bit Rate	● Main stream: You can set bit rate here to change video quality. The large the bit rate is, the better the quality is. Please refer to recommend bit rate for the detailed information. ● Extra stream: In CBR, the bit rate here is the max value. In dynamic video, system needs to low frame rate or video quality to guarantee the value. The value is null in VBR mode.
Reference bit rate	Recommended bit rate value according to the resolution and frame rate you have set.
I Frame	Here you can set the P frame amount between two I frames. The value ranges from 1 to 150. Default value is 50. Recommended value is frame rate *2.
Watermark enable	This function allows you to verify the video is tampered or not. Here you can select watermark bit stream, watermark mode and watermark character. Default character is DigitalCCTV. The max length is 85-digit. The character can only include number, character and underline.

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- **Snapshot**

The snapshot interface is shown as in Figure 7-20.

Figure 7-20

Please refer to the following sheet for detailed information:

Parameter	Function
Snapshot type	There are two modes: Timing (schedule) and Event (activation). ● Timing snapshot is valid during the specified period you set. ● Activation snapshot only is valid when motion detect alarm, camera masking alarm or local activation alarm occurs.
Image size	It is the same with the resolution of the main stream.
Quality	It is to set the image quality. There are six levels.
Interval	It is to set snapshot frequency. The value ranges from 1s to 7s.
Copy	Click it; you can copy current channel setup to other channel(s).

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- **Video Overlay**

The video overlay interface is shown as in Figure 7-21.

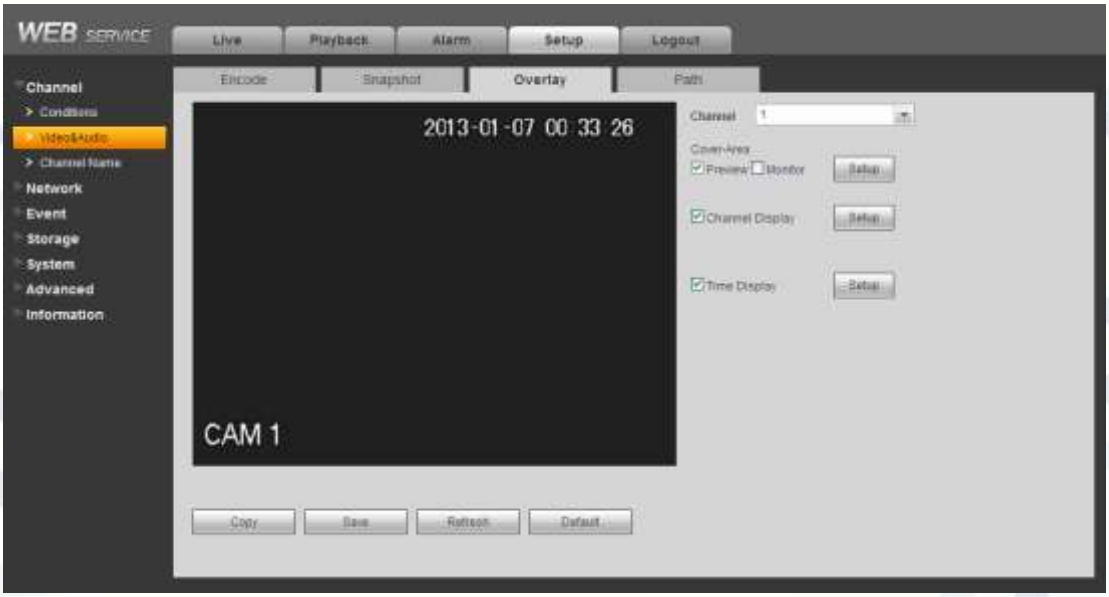

Figure 7-21

Please refer to the following sheet for detailed information:

Parameter	Function
Cover-area (Privacy mask)	Check Preview or Monitor first. Click Set button, you can privacy mask the specified video in the preview or monitor video. System max supports 4 privacy mask zones.
Time Title	You can enable this function so that system overlays time information in video window. You can use the mouse to drag the time title position. You can view time title on the live video of the WEB or the playback video.
Channel Title	You can enable this function so that system overlays channel information in video window. You can use the mouse to drag the channel title position. You can view channel title on the live video of the WEB or the playback video.

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- **Path**

The storage path interface is shown as in Figure 7-22.

Here you can set snap image saved path (in the preview interface) and the record storage path (in the preview interface).The default setup is C:\PictureDownload and C:\RecordDownload.

Please click the Save button to save current setup.

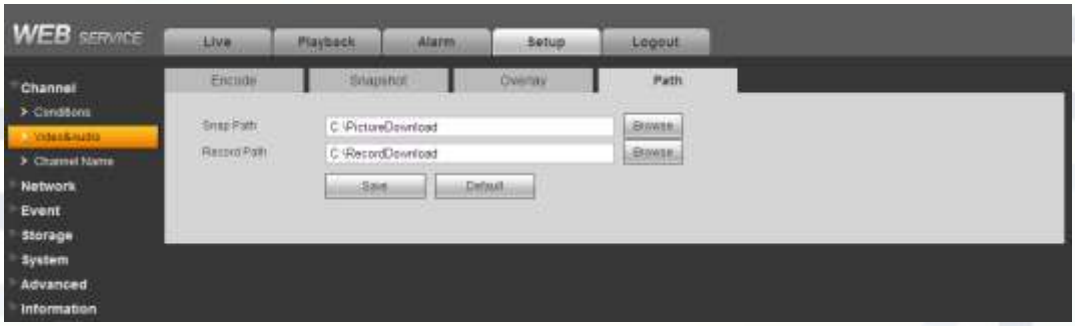

Figure 7-22

- **Channel Name**

Here you can set channel name. See Figure 7-23.

Figure 7-23

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7.8.3 Network

- **TCP/IP**

The TCP/IP interface is shown as in Figure 7-24.

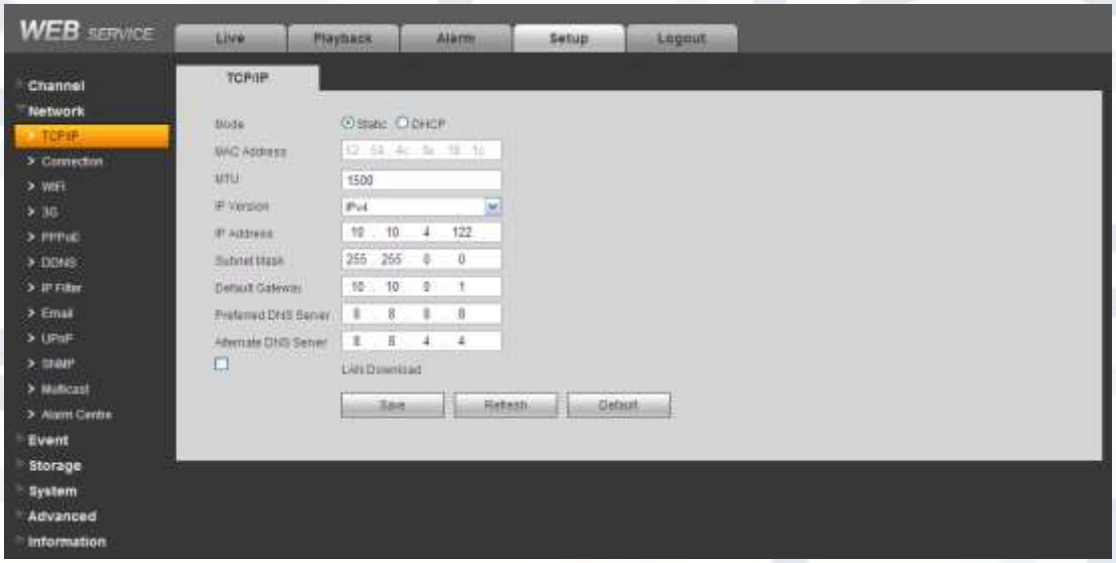

Figure 7-24

Please refer to the following sheet for detailed information:

Parameter	Function
Mode	There are two modes: static mode and the DHCP mode. ● The IP/submask/gateway are null when you select the DHCP mode to auto search the IP. ● If you select the static mode, you need to set the IP/submask/gateway manually. ● If you select the DHCP mode, you can view the IP/submask/gateway from the DHCP. ● If you switch from the DHCP mode to the static mode, you need to reset the IP parameters. ● Besides, IP/submask/gateway and DHCP are read-only when the PPPoE dial is OK.
Mac Address	It is to display host Mac address.
IP Version	It is to select IP version. IPV4 or IPV6. You can access the IP address of these two versions.
IP Address	Please use the keyboard to input the corresponding number to modify the IP address and then set the corresponding subnet mask and the default gateway.
Preferred DNS	DNS IP address.
Alternate DNS	Alternate DNS IP address.

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For the IP address of IPv6 version, default gateway, preferred DNS and alternate DNS, the input value shall be 128-digit. Do not be leave blank.	
LAN load	System can process the downloaded data first if you enable this function. The download speed is 1.5X or 2.0X of the normal speed.

- **Connection**

The connection interface is shown as in Figure 7-25.

Figure 7-25

Please refer to the following sheet for detailed information:

Parameter	Function
Max connection	It is the max Web connection for the same device. The value ranges from 1 to 20. The default setup is 10.
TCP port	The default value is 37777. You can input the actual port number if necessary.
UDP port	The default value is 37778. You can input the actual port number if necessary.
HTTP port	The default value is 80. You can input the actual port number if necessary.
RTSP port	The default value is 554.

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- **WIFI**

Please note this function is for the device of WIFI module.

The WIFI interface is shown as in Figure 7-26.

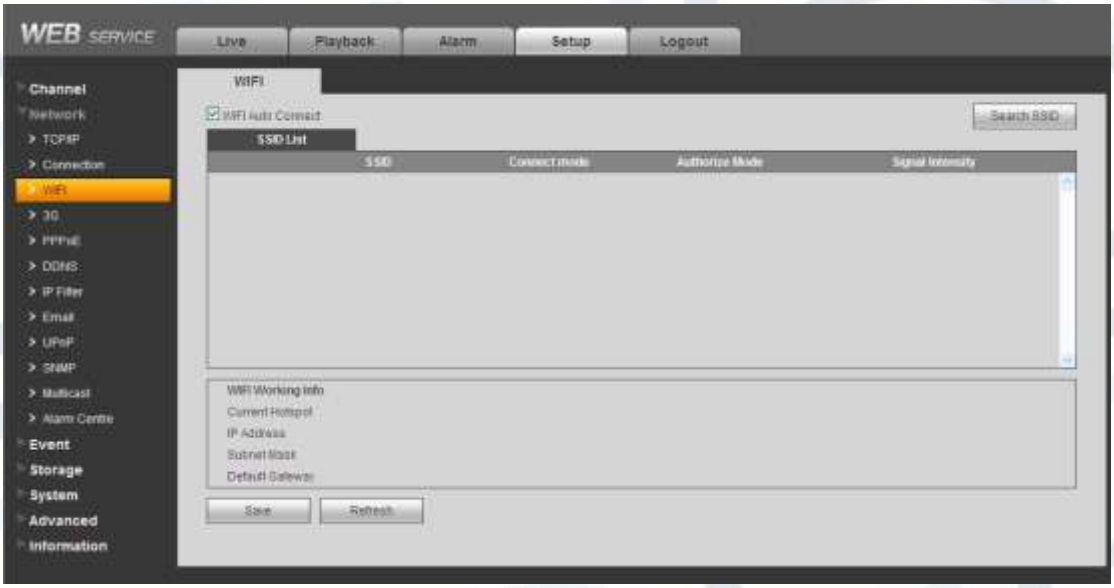

Figure 7-26

Please check the box to enable WIFI function and then click the Search SSID button. Now you can view all the wireless network information in the following list. Double click a name to connect to it. Click Refresh button, you can view latest connection status.

- **3G: CDMA/GPRS**

The CDMA/GPRS interface is shown as in Figure 7-27.

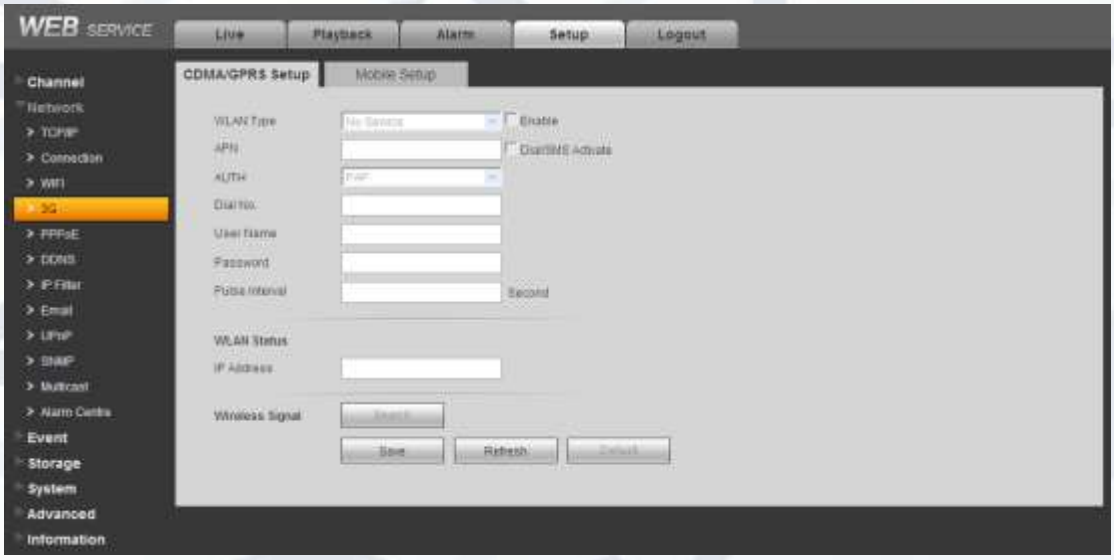

Figure 7-27

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Please refer to the following sheet for detailed information:

Parameter	Function
WLAN type	Here you can select 3G network type to distinguish the 3G module from different ISP. The types include WCDMA，CDMA1x and etc.
APN/Dial No.	Here is the important parameter of PPP.
Authorization	It includes PAP,CHAP,NO_AUTH.
Pulse interval	It is to set time to end 3G connection after you close extra stream monitor. For example, if you input 60 here, system ends 3G connection after you close extra stream monitor 60 seconds.
Important • **If the pulse interval is 0, then system does not end 3G connection after you close the extra stream monitor.** • **Pulse interval here is for extra stream only. This item is null if you are using main stream to monitor.**	

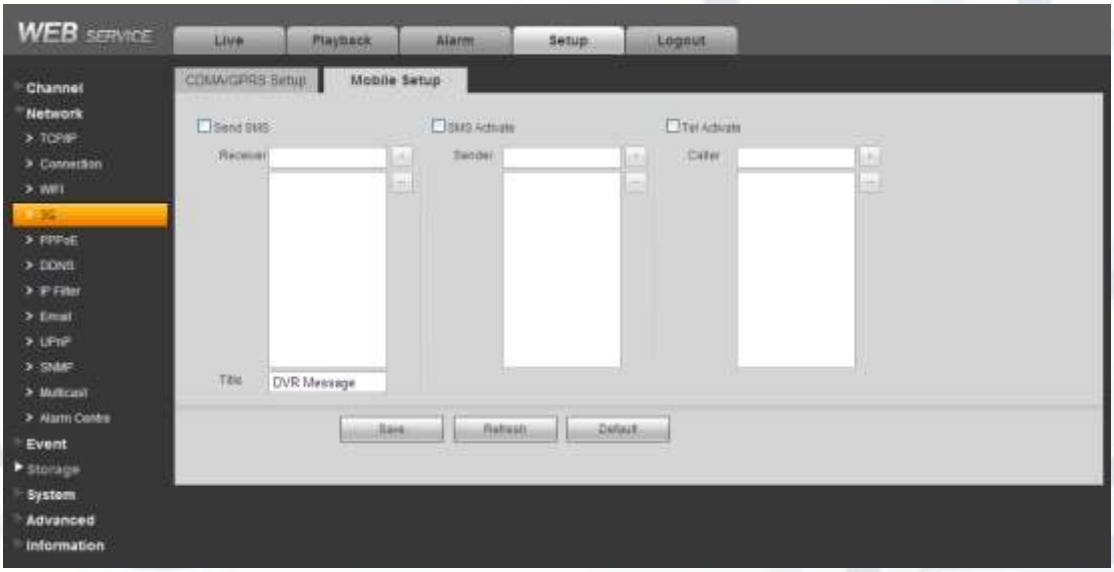

Figure 7-28

- **3G: Mobile**

The mobile setup interface is shown as in Figure 7-29.

Here you can activate or turn off the 3G connected phone/mobile phone, or the phone you set to get alarm message.

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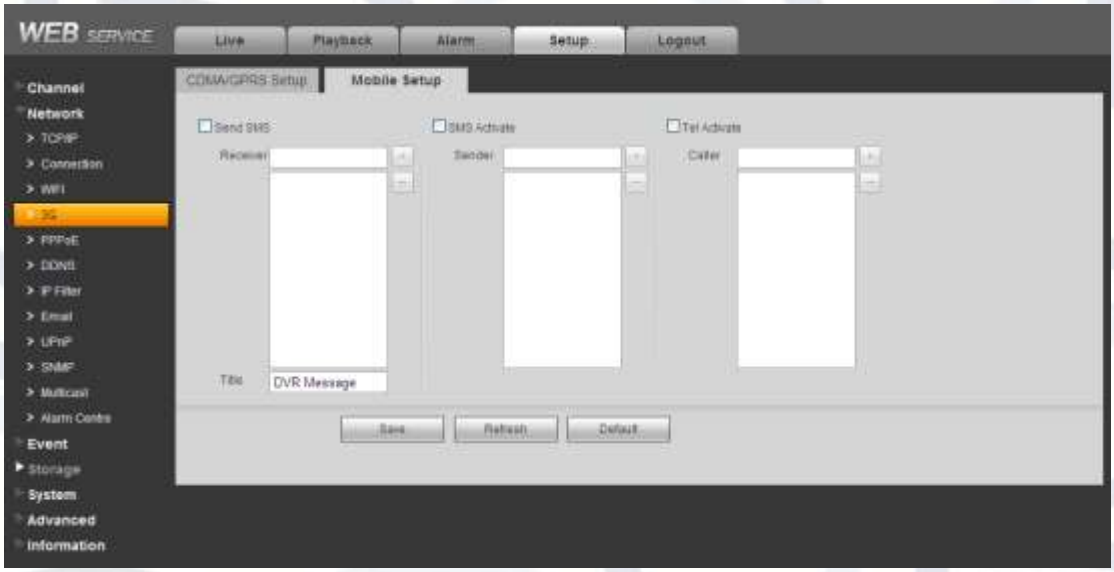

Figure 7-29

- **PPPoE**

The PPPoE interface is shown as in Figure 7-30.

Input the PPPoE user name and password you get from the IPS (internet service provider) and enable PPPoE function. Please save current setup and then reboot the device to get the setup activated.
Device connects to the internet via PPPoE after rebooting. You can get the IP address in the WAN from the IP address column.

Note: you need to use previous IP address in the LAN to login the device. Please go to the IP address item to via the device current device information. You can access the client-end via this new address.

Figure 7-30

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- **DDNS**

The DDNS interface is shown as in Figure 7-31.

The DDNS is to set to connect the various servers so that you can access the system via the server. Please go to the corresponding service website to apply a domain name and then access the system via the domain. It works even your IP address has changed.

Please select DDNS from the dropdown list (Multiple choices). Before you use this function, please make sure your purchased device support current function.

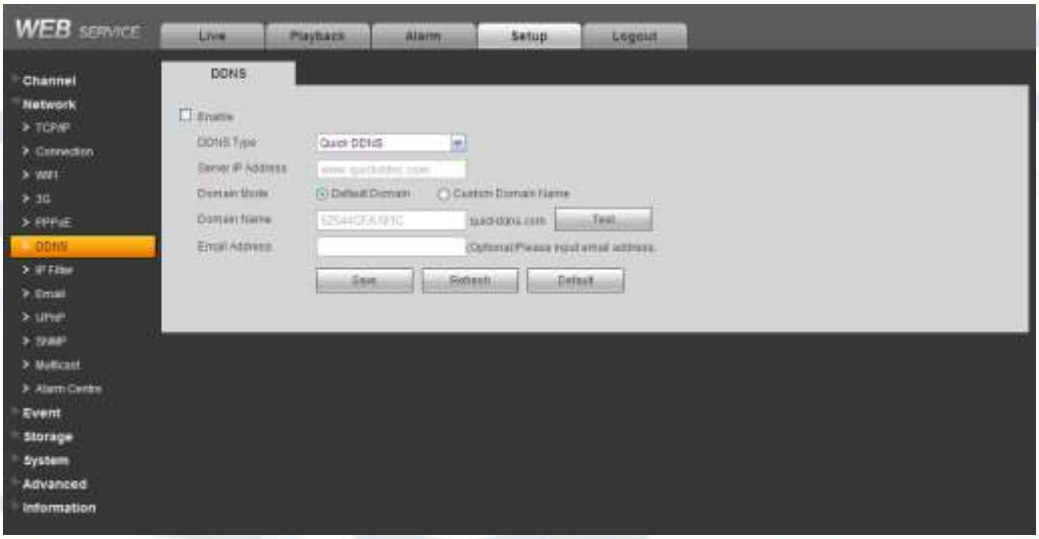

Figure 7-31

Please refer to the following sheet for detailed information:

Parameter	Function
Server Type	You can select DDNS protocol from the dropdown list and then enable DDNS function.
Server IP	DDNS server IP address
Server Port	DDNS server port.
Domain Name	Your self-defined domain name.
User	The user name you input to log in the server.
Password	The password you input to log in the server.
Update period	Device sends out alive signal to the server regularly. You can set interval value between the device and DDNS server here.

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Quick DDNS and Client-end Introduction

1) Background Introduction

Device IP is not fixed if you use ADSL to login the network. The DDNS function allows you to access the DVR via the registered domain name. Besides the general DDNS, the quick DDNS works with the device from the manufacturer so that it can add the extension function.

2) Function Introduction

The quick DDNS client has the same function as other DDNS client end. It recognises the bonding of the domain name and the IP address. Right now, current DDNS server is for our own devices only. You need to refresh the bonding relationship of the domain and the IP regularly. There is no user name, password or the ID registration on the server. At the same time, each device has a default domain name (Generated by MAC address) for your option. You can also use customized valid domain name (has not registered.).

3) Operation

Before you use Quick DDNS, you need to enable this service and set proper server address, port value and domain name.

- **Server address**：www.quickddns.com
- **Port number**：80
- **Domain name**：There are two modes: Default domain name and customized domain name.

Except default domain name registration, you can also use customised domain name (You can input your self-defined domain name.) After successful registration, you can use domain name to login installed of the device IP.

- **User name:** It is optional. You can input your commonly used email address.

Important

- Do not register frequently. The interval between two registrations should not be more than 60 seconds apart. Too many registration requests may result in the server blocking access to you.
- System may deregister the domain name if it sits idle for overa year. You can get a notification email before this happens so you can cancel the operation if your email address setup is correctly.

- **IP filter**

The IP filter interface is shown as in Figure 7-32.

After you enabled trusted sites function, only the IP listed below can access current DVR.

If you enable blocked sites function, the following listed IP addresses can not access current DVR.

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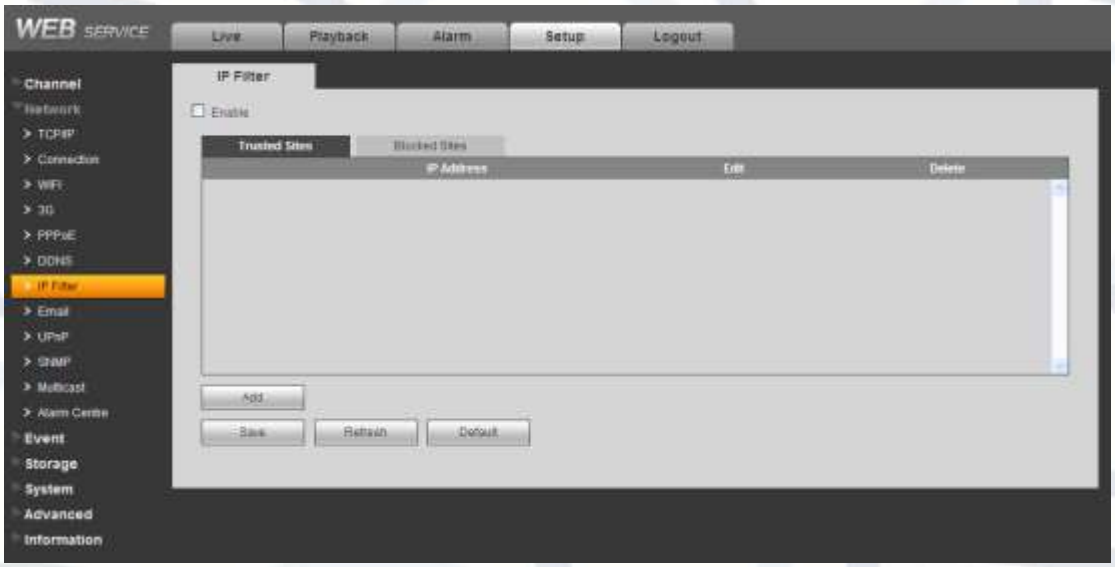

Figure 7-32

- **Email**

The email interface is shown as in Figure 7-33.

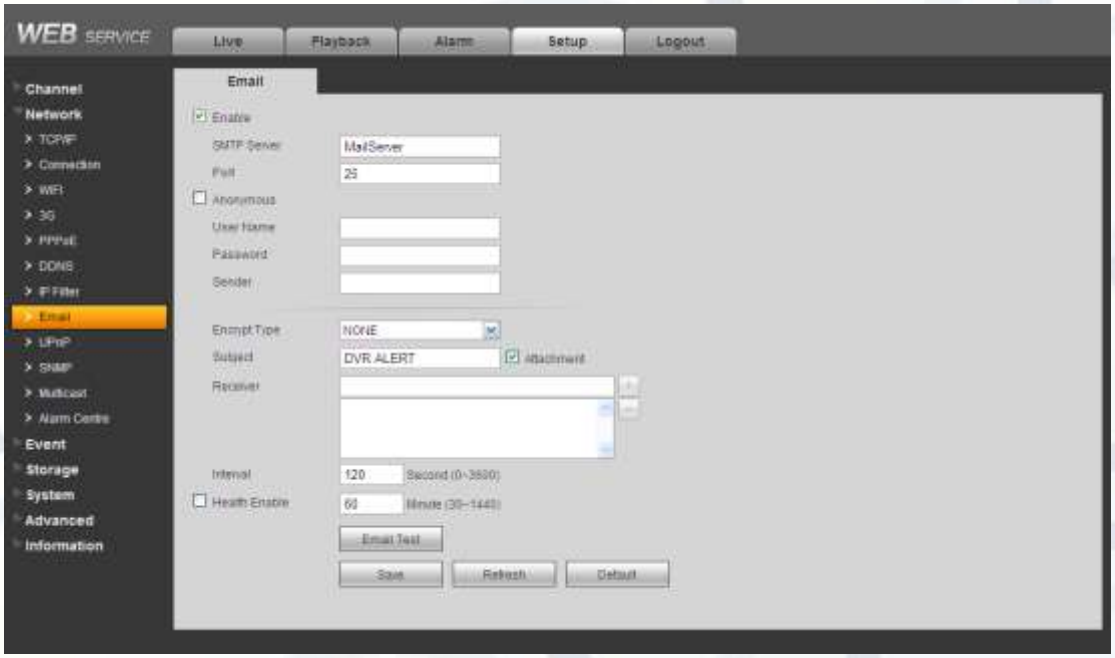

Figure 7-33

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Please refer to the following sheet for detailed information:

Parameter	Function
Enable	Please check the box here to enable email function.
SMTP Server	Input server address and then enable this function.
Port	Default value is 25. You can modify it if necessary.
Anonymity	For the server supports the anonymity function. You can auto login anonymously. You do not need to input the user name. password and the sender information.
User Name	The user name of the sender email account.
Password	The password of sender email account.
Sender	Sender email address.
Authentication (Encryption mode)	You can select SSL or none.
Subject	Input email subject here.
Attachment	System can send out the email of the snapshot picture once you check the box here.
Receiver	Input receiver email address here. Max three addresses. It supports SSL,TLS email box.
Interval	The send interval ranges from 0 to 3600 seconds. 0 means there is no interval. Please note system will not send out the email immediately when the alarm occurs. When the alarm, motion detection or the abnormity event activates the email, system sends out the email according to the interval you specified here. This function is very useful when there are too many emails activated by the abnormity events, which may result in heavy load for the email server.
Health mail enable	Please check the box here to enable this function.
Update period (interval)	This function allows the system to send out the test email to check the connection is OK or not. Please check the box to enable this function and then set the corresponding interval. System can send out the email regularly as you set here.
Email test	The system will automatically sent out a email once to test the connection is OK or not .Before the email test, please save the email setup information.

- **UPnP**

It allows you to establish the mapping relationship between the LAN and the public network.

Here you can also add, modify or remove UPnP item. See Figure 7-34.

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- In the Windows OS, From Start->Control Panel->Add or remove programs. Click the “Add/Remove Windows Components” and then select the “Network Services” from the Windows Components Wizard.
- Click the Details button and then check the “Internet Gateway Device Discovery and Control client” and “UPnP User Interface”. Please click OK to begin installation.
- Enable UPnP from the Web. If your UPnP is enabled in the Windows OS, the DVR can auto detect it via the “My Network Places”

Figure 7-34

- **SNMP**

The SNMP interface is shown as in Figure 7-35.

The SNMP allows the communication between the network management work station software and the proxy of the managed device.

Figure 7-35

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Please refer to the following sheet for detailed information:

Parameter	Function
SNMP Port	The listening port of the proxy program of the device. It is a UDP port not a TCP port. The value ranges from 1 to 65535. The default value is 161
Read Community	It is a string. It is a command between the manage process and the proxy process. It defined the authentication, access control and the management relationship between one proxy and one group of the managers. Please make sure the device and the proxy are the same. The read community will read all the objects the SNMP supported in the specified name. The default setup is public.
Write Community	It is a string. It is a command between the manage process and the proxy process. It defined the authentication, access control and the management relationship between one proxy and one group of the managers. Please make sure the device and the proxy are the same. The read community will read/write/access all the objects the SNMP supported in the specified name. The default setup is write.
Trap address	The destination address of the Trap information from the proxy program of the device.
Trap port	The destination port of the Trap information from the proxy program of the device. It is for the gateway device and the client-end PC in the LAN to exchange the information. It is a non-protocol connection port. It has no effect on the network applications. It is a UDP port not TCP port. The value ranges from 1 to 165535. The default value is 162.
SNMP version	● Check V1, system only processes the information of V1. ● Check V2, system only processes the information of V2. ● Check SNMP V3.you can set user name and password. There is account security verification when the server wants to connect to the device. At the same time, the v1 and V2 is null and can not select.

- **Multicast**

The multicast interface is shown as in Figure 7-36.

Multicast is a transmission mode of data packet. When there is a multiple-host to receive the same data packet, multiple-cast is the best option to reduce the broad width and the CPU load. The source host can just send out one data to transit. This function also depends on the relationship of the group member and group of the outer.

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Figure 7-36

- **Alarm Centre**

The alarm centre interface is shown as below. See Figure 7-37.

This interface is reserved for you to develop. System can upload alarm signal to the alarm centre when local alarm occurs.

Before you use alarm centre, please set server IP, port and etc. When an alarm occurs, system can send out data as the protocol defined, so the client-end can get the data.

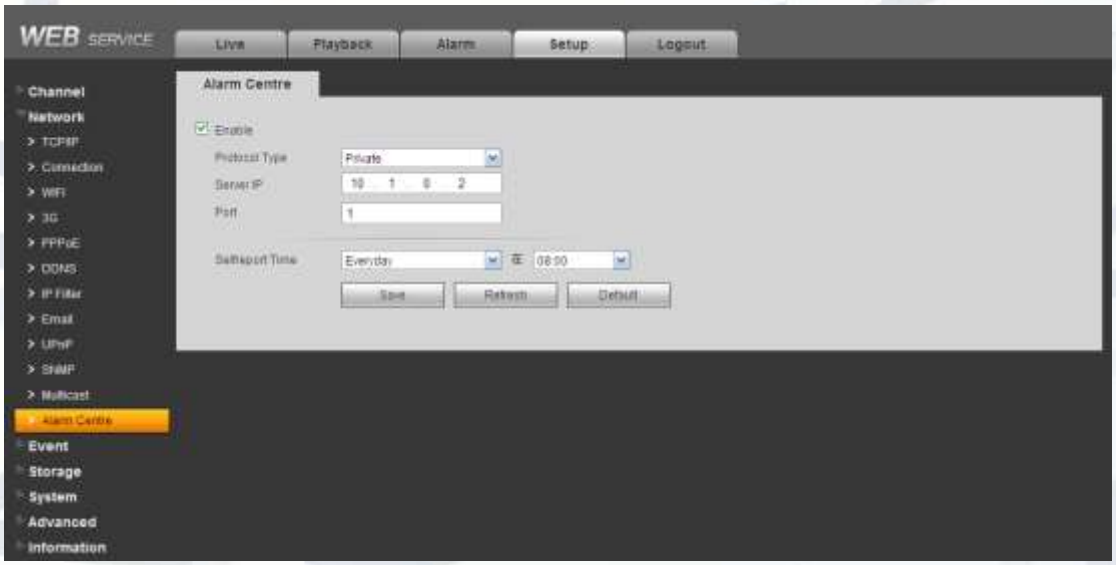

Figure 7-37

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7.8.4 Event

- **Video detect: Motion Detect**

The motion detect interface is shown as in Figure 7-38.

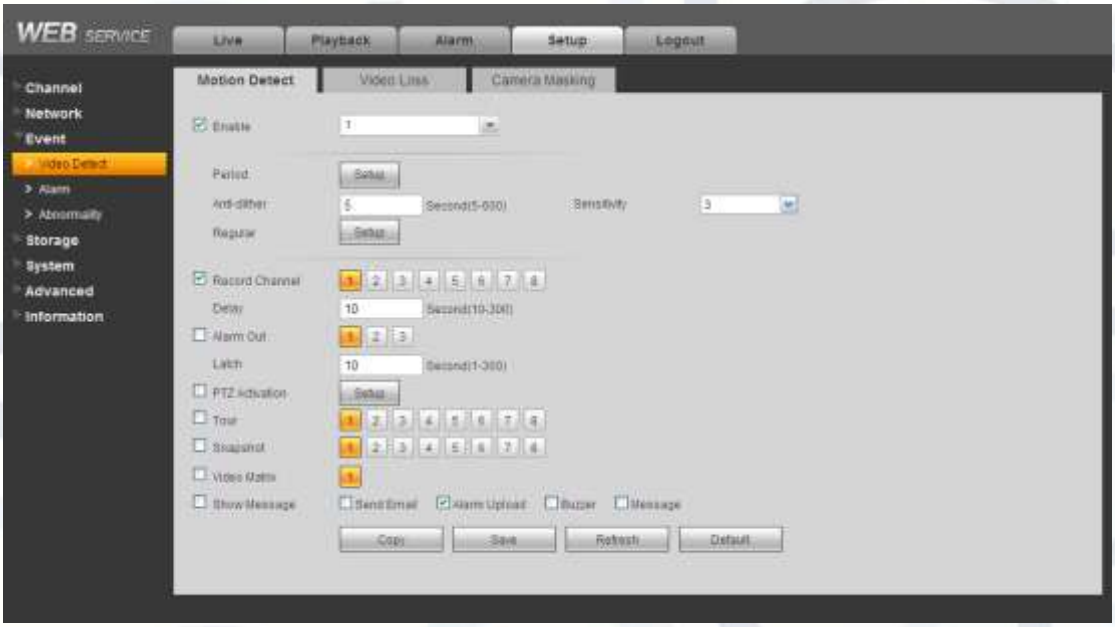

Figure 7-38

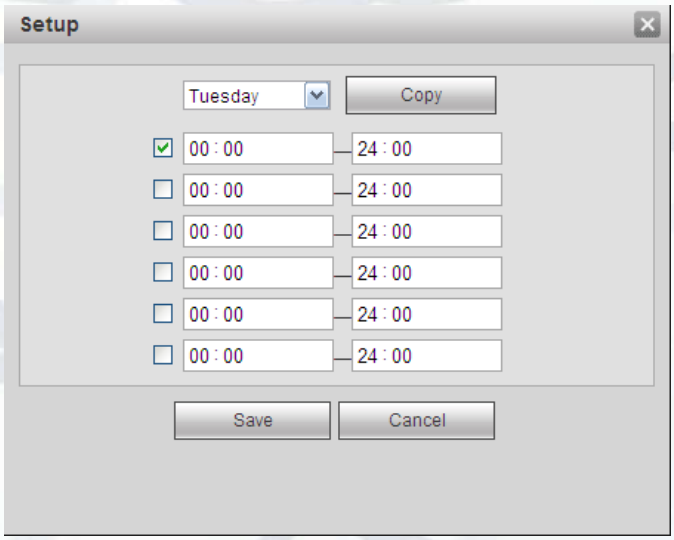

Figure 7-39

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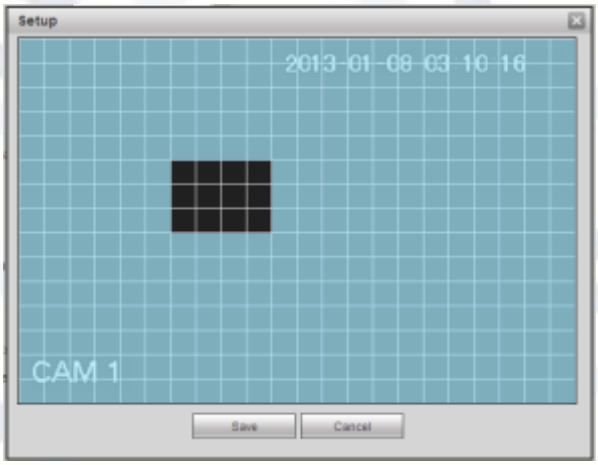

Figure 7-40

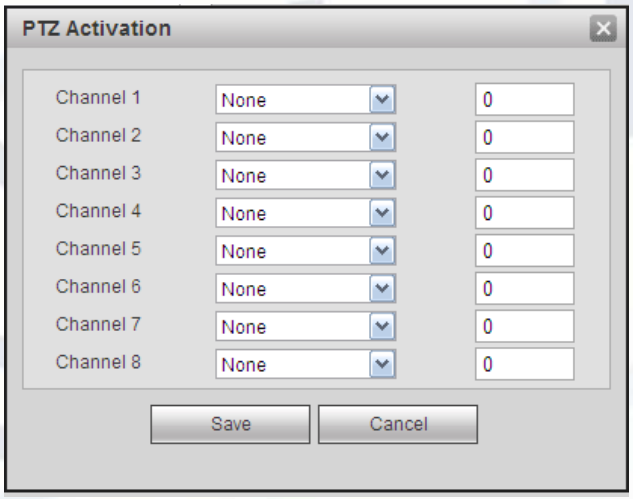

Figure 7-41

Please refer to the following sheet for detailed information:

Parameter	Function
Enable	You need to check the box to enable motion detection function. Please select a channel from the dropdown list.
Period	Motion detection function becomes activated in the specified periods. See Figure 7-39. There are six periods in one day. Please draw a circle to enable corresponding period. Click OK button, system goes back to motion detection interface, please click save button to exit.
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 5s to 600s.
Sensitivity	There are six levels. The sixth level has the highest sensitivity.
Region	There are six levels. The sixth level has the highest sensitivity. Region: If you select motion detection type, you can click this button to set motion detection zone. The interface is shown as in

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Parameter	Function
	Figure 7-40. There are PAL 22X18/NTSC 22X15 zones. Right click mouse you can go to full-screen display mode. Do remember clicking OK button to save your motion detection zone setup.
Record channel	System auto activates motion detection channel(s) to record once an alarm occurs. Please note you need to set motion detect record period and go to Storage-> Schedule to set current channel as schedule record.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Alarm out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when an alarm occurs.
Latch	System can delay the alarm output for specified time after an alarm ended. The value ranges from 1s to 300s.
Show message	System can pop up a message to alarm you in the local host screen if you enabled this function.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.
Message	When 3G network connection is OK, system can send out a message when motion detect occurs.
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
Tour	You need to check the box here to enable this function. System begins 1-wiindow or multiple-window tour display among the channel(s) you set to record when an alarm occurs. Please go to chapter **Error! Reference source not found.** to set tour interval and tour mode.
PTZ Activation	Here you can set PTZ movement when alarm occurs. Such as go to preset X. See Figure 7-41.
Video Matrix	This function is for motion detect only. Check the box here to enable video matrix function. Right now system supports one-channel tour function. System takes “first come and first serve” principle to deal with the activated tour. System will process the new tour when a new alarm occurs after previous alarm ended. Otherwise it restores the previous output status before the alarm activation.

- **Video Dectect: Video Loss**

The video loss interface is shown as in Figure 7-42.

After analysis video, system can generate a video loss alarm when the detected moving signal reached the sensitivity you set here.

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Please note video loss does not support anti-dither, sensitivity, region setup. For rest setups, please refer to chapter □ motion detect for detailed information.

Figure 7-42

- **Video Detect: Camera Masking**

The camera masking interface is shown as in Figure 7-43.

After analysis video, system can generate a camera masking alarm when the detected moving signal reached the sensitivity you set here.

For detailed setups, please refer to chapter □ motion-detect for detailed information.

Figure 7-43

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- **Alarm: Local Alarm**

Before operation, please make sure you have properly connected alarm devices such as buzzer. The input mode includes local alarm and network alarm.

The local alarm interface is shown as in Figure 7-44.

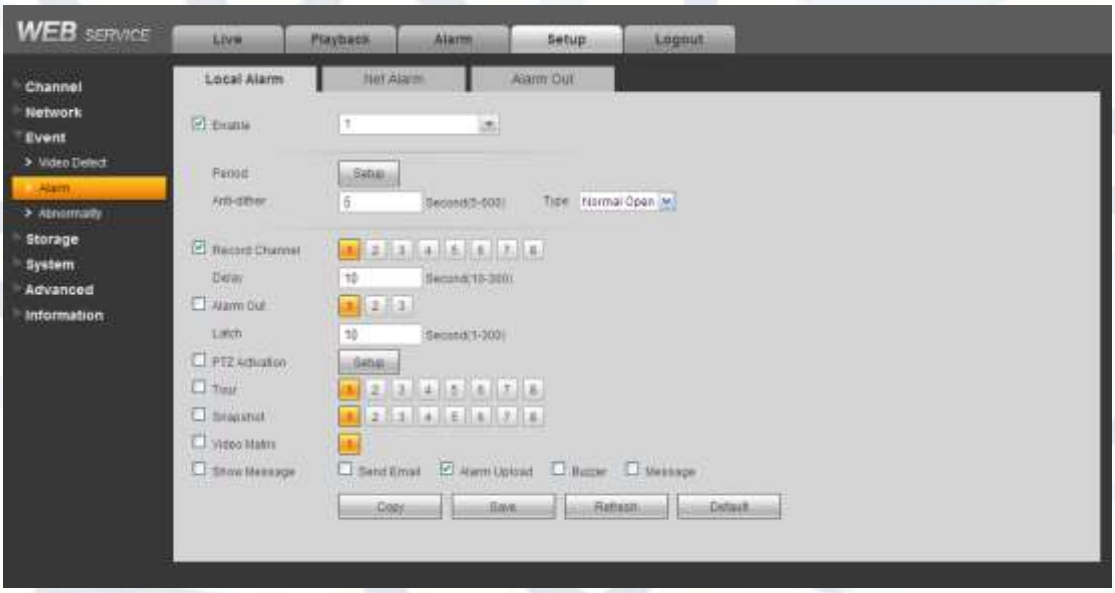

Figure 7-44

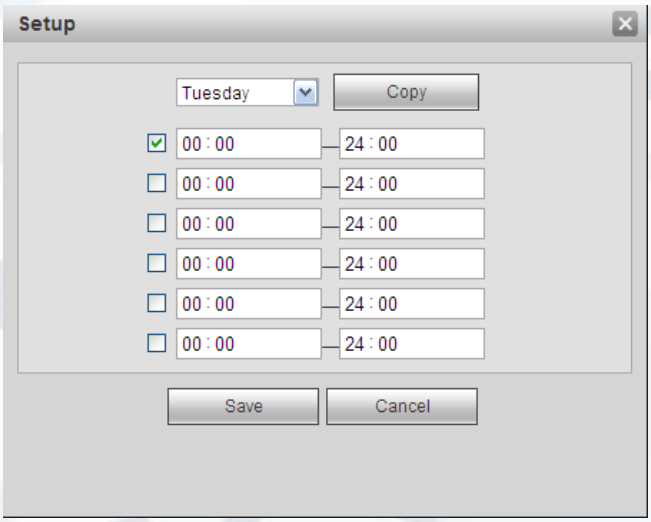

Figure 7-45

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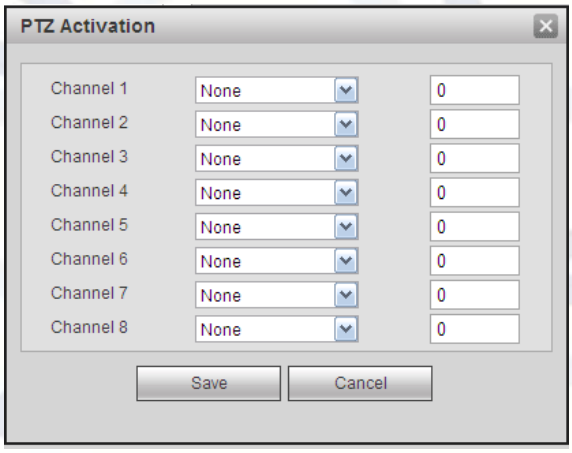

Figure 7-46

Please refer to the following sheet for detailed information:

Parameter	Function
Enable	You need to check the box to enable this function. Please select a channel from the dropdown list.
Period	This function becomes activated in the specified periods. There are six periods in one day. Please draw a circle to enable corresponding period. Select date. If you do not select, current setup applies to today only. You can select all week column to apply to the whole week. Click OK button, system goes back to local alarm interface, please click save button to exit.
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 5s to 600s.
Sensor type	There are two options: NO/NC.
Record channel	System auto activates motion detection channel(s) to record once an alarm occurs. Please note you need to set alarm record period and go to Storage-> Schedule to set current channel as schedule record.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Alarm out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when an alarm occurs.
Latch	System can delay the alarm output for specified time after an alarm ended. The value ranges from 1s to 300s.
Show message	System can pop up a message to alarm you in the local host screen if you enabled this function.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.

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Parameter	Function
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
Tour	You need to check the box here to enable this function. System begins 1-wiindow or multiple-window tour display among the channel(s) you set to record when an alarm occurs. Please go to chapter **Error! Reference source not found.** to set tour interval and tour mode.
PTZ Activation	Here you can set PTZ movement when alarm occurs. Such as go to preset X.

- **Alarm: Net Alarm**

The network alarm interface is shown as in Figure 7-47. Network alarm refers to the alarm signal from the network. System does not anti-dither and sensor type setup. For reset setups, please refer to chapter □.

Figure 7-47

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- **Alarm: Alarm Out**

Here you can set alarm output channel mode. See Figure 7-48.

Figure 7-48

- **Abnormity**

It includes six statuses: No disk, disk error, net disconnection, IP conflict and MAC conflict. See Figure 7-49 through Figure 7-54.

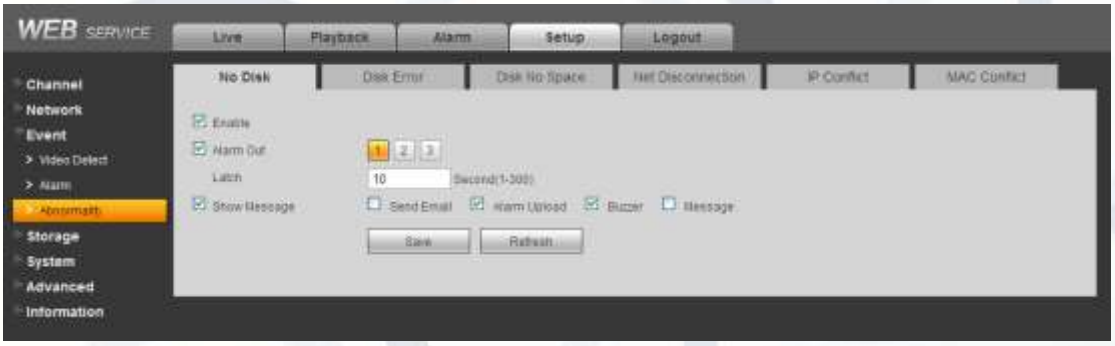

Figure 7-49

Figure 7-50

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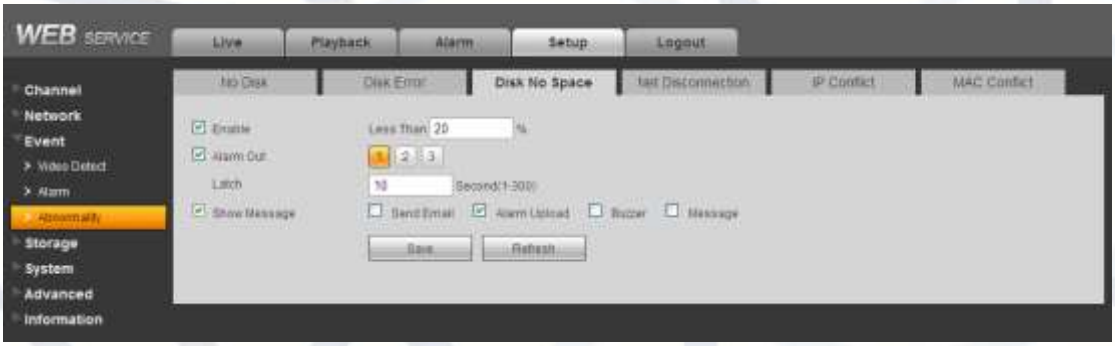

Figure 7-51

Figure 7-52

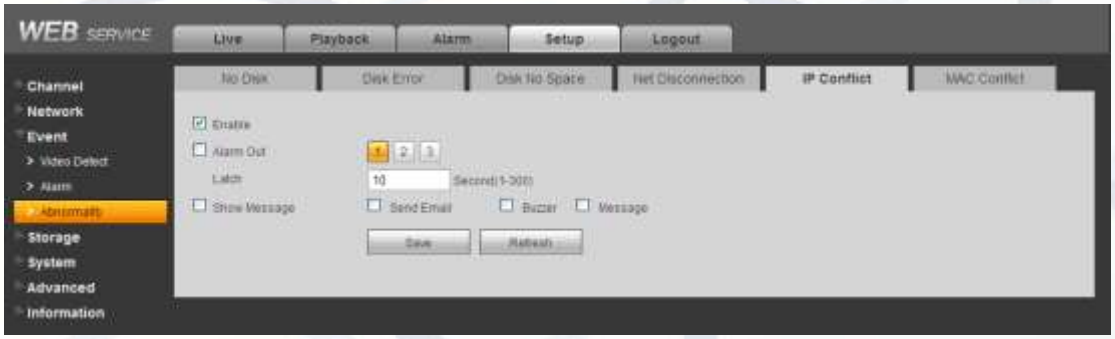

Figure 7-53

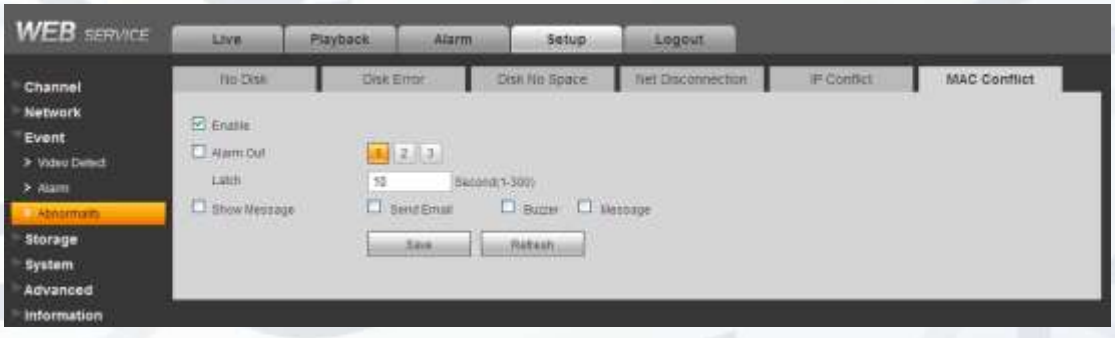

Figure 7-54

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Please refer to the following sheet for detailed information:

Parameter	Function
Event Type	The abnormal events include: No disk, disk error, disk has no space, net disconnection, IP conflict and MAC conflict. You can set one or more items here. Less than: You can set the minimum percentage value here (For disk not space only). The device can alarm when capacity is not sufficient. You need to draw a circle to enable this function.
Enable	Check the box here to enable selected function.
Alarm Out	Please select corresponding alarm output channel when an alarm occurs. You need to check the box to enable this function.
Latch	The alarm output can delay for the specified time after an alarm stops. The value ranges from 1s to 300s.
Show message	System can pop up a message to alarm you in the local host screen if you enabled this function.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.

7.8.5 Storage

- **Schedule**

In this interfaces, you can add or remove the schedule record setup. See Figure 7-55.

There are three record modes: general (auto), motion detect and alarm. There are six periods in one day. Please make sure you have enabled the corresponding record mode in the Setup->Storage->Conditions.

You can view the current time period setup from the color bar.

- Green color stands for the general record/snapshot.
- Yellow color stands for the motion detect record/snapshot..
- Red color stands for the alarm record/snapshot.

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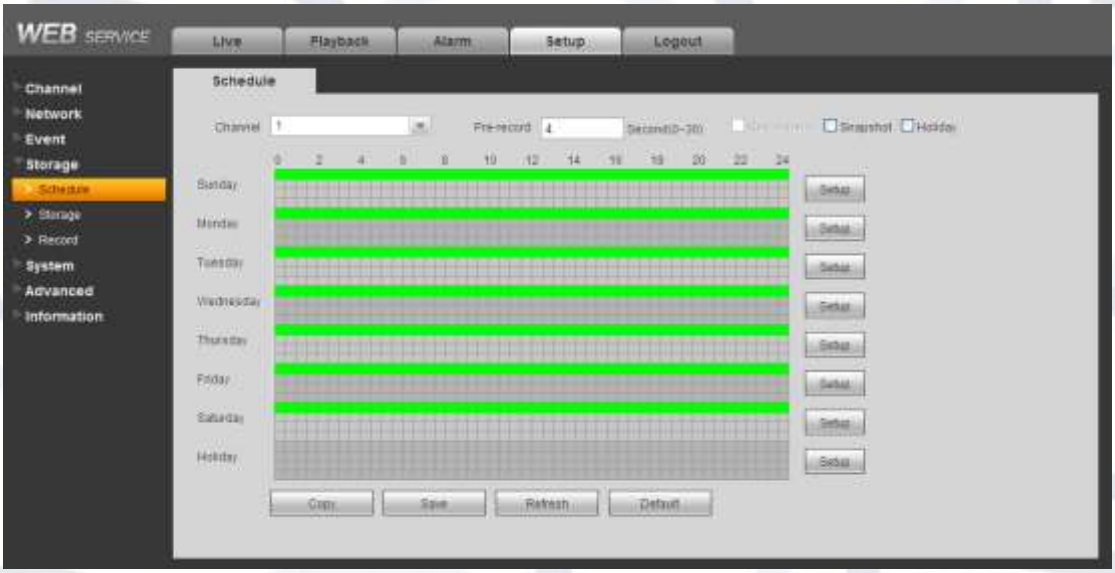

Figure 7-55

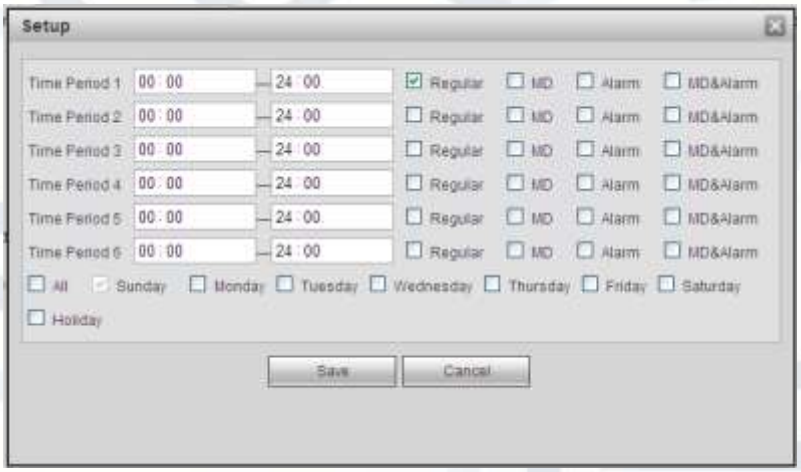

Figure 7-56

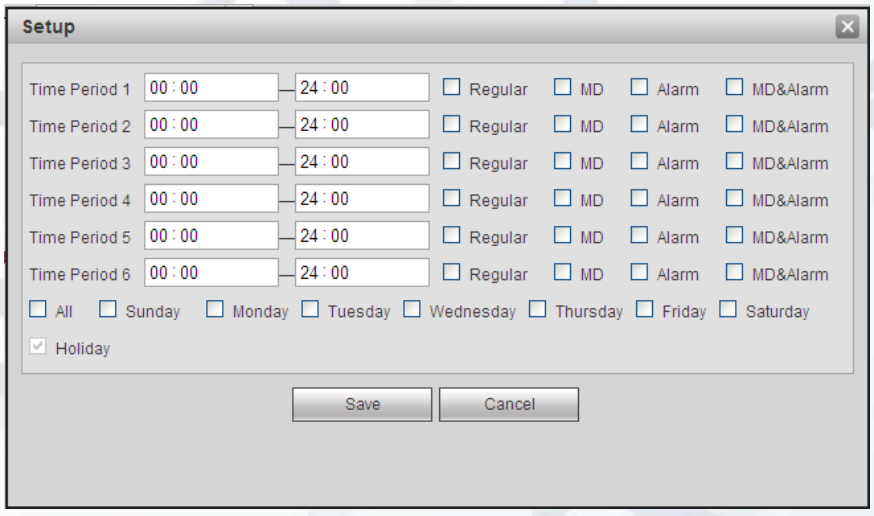

Figure 7-57

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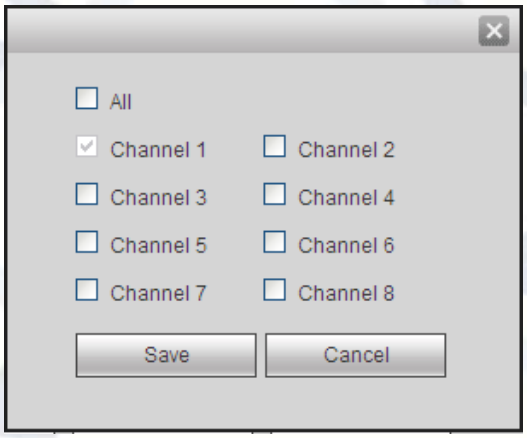

Figure 7-58

Please refer to the following sheet for detailed information:

Parameter	Function
Channel	Please select a channel from the dropdown list.
Pre-record	Please input pre-record time here. The value ranges from 0 to 30.
Redundancy	Check the box here to enable redundancy function. **Please note this function is null if there is only one HDD.**
Snapshot	Check the box here to enable snapshot function.
Holiday	Check the box here to enable holiday function.
Setup (Sunday to Saturday)	Click the Setup button, you can set record period. See Figure 7-56. There are six periods in one day. If you do not check the date at the bottom of the interface, current setup is for today only. Please click Save button and then exit.
Setup (Holiday)	Click the Setup button, you can set record period. See Figure 7-57. There are six periods in one day. If you check Holiday box, current channel shall record as your holiday setup here.
Copy	Copy function allows you to copy one channel setup to another. After setting in channel, click Copy button, you can go to interface Figure 7-58. You can see current channel name is grey such as channel 1. Now you can select the channel you wan to paste such as channel 5/6/7. If you wan to save current setup of channel 1 to all channels, you can click the first box “ALL”. Click the OK button to save current copy setup. Click the OK button in the Encode interface, the copy function succeeded.

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- **Storage: Local Storage**

The local interface is shown as in Figure 7-59. Here you can see HDD information. You can also operate the read-only, write-only, hot swap and format operation.

Figure 7-59

- **Storage: HDD Setting**

Here is for you to set HDD group. See Figure 7-60.

Figure 7-60

- **Storage: HDD Channel**

The HDD channel interface is shown as in Figure 7-61. Here you can set channel group.

Figure 7-61

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Storage: FTP

The FTP interface is shown as in Figure 7-62.

The FTP function is on if you check the Enable box here.

When network is offline or malfunction, system can save record or picture to HDD.

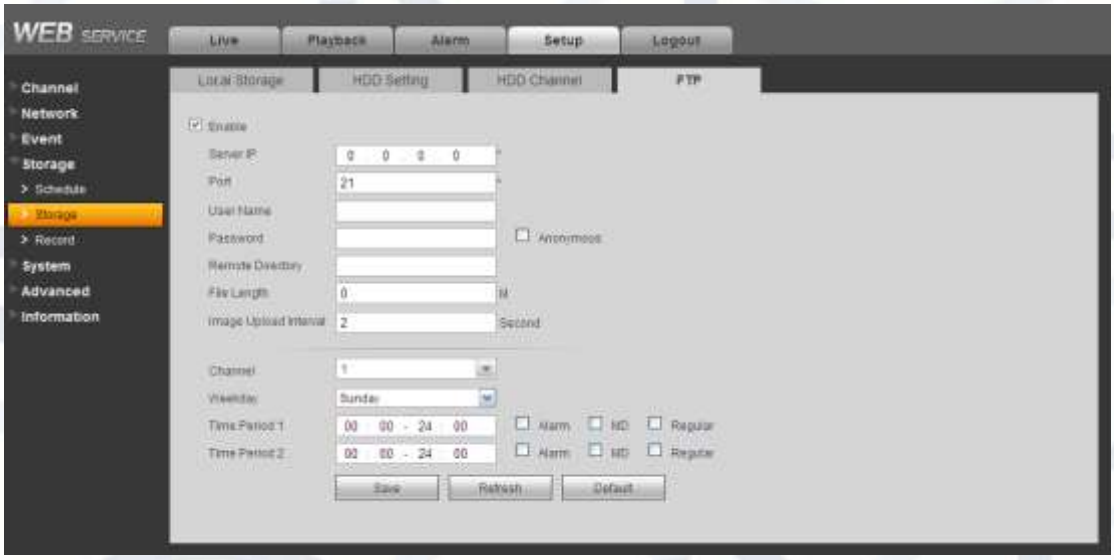

Figure 7-62

- **Record control**

The record control interface is shown as in Figure 7-63.

Figure 7-63

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Please refer to the following sheet for detailed information:

Parameter	Function
Channel	Here you can view channel number. The number displayed here is the max channel amount of your device.
Status	There are three statuses: schedule, manual and stop.
Schedule	System enables auto record function as you set in record schedule setup (general, motion detect and alarm).
Manual	This has the highest priority. Enable corresponding channel to record no matter what period applied in the record setup.
Stop	Stop current channel record no matter what period applied in the record setup.
Start all/ stop all	Check the corresponding All button, you can enable or disable all channels record.

7.8.6 System

- **General: General**

The general interface includes **General, date/time** and **holiday setup.**

The general interface is shown as in Figure 7-64.

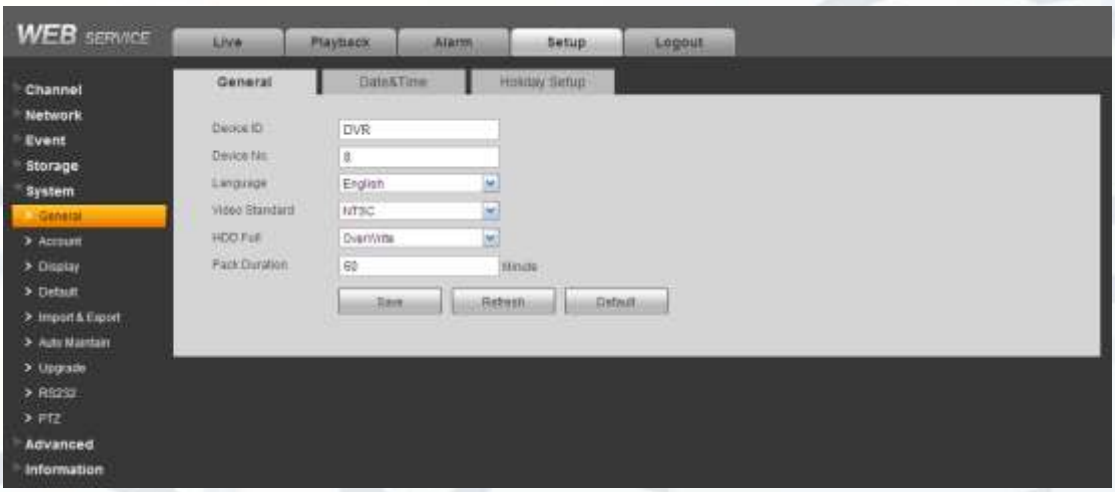

Figure 7-64

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Please refer to the following sheet for detailed information:

Parameter	Function
Device ID	This is to set device name.
Device No.	This is device channel number.
Language	You can select the language from the dropdown list. **Please note the device needs to reboot to get the modification activated.**
Video Standard	This is to display video standard such as PAL.
HDD full	Here is for you to select working mode when hard disk is full. There are two options: stop recording or rewrite. If current working HDD is overwritten or the current HDD is full while the next HDD is no empty, then system stops recording, If the current HDD is full and then next HDD is not empty, then system overwrites the previous files.
Pack duration	Here is for you to specify record duration. The value ranges from 1 to 120 minutes. Default value is 60 minutes.

- **General: Date and time**

The date and time interface is shown as in Figure 7-65

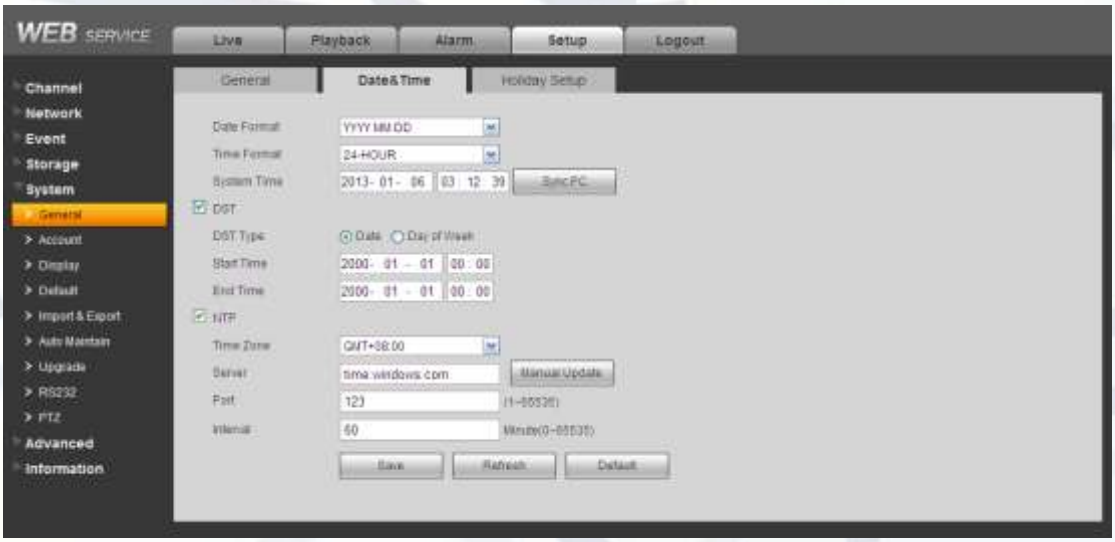

Figure 7-65

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Please refer to the following sheet for detailed information:

Parameter	Function
Date format	Here you can select date format from the dropdown list.
Time Format	There are two options: 24-H and 12-H.
Time zone	The time zone of the device.
System time	This is to set system time. It becomes valid after you set.
Sync PC	You can click this button to save the system time as your PC current time.
DST	Here you can set day night save time begin time and end time. You can set according to the date format or according to the week format.
NTP	You can check the box to enable NTP function.
NTP server	You can set the time server address.
Port	It is to set the time server port.
Interval	It is to set the sync periods between the device and the time server.

- **General: Holiday Setup**

Holiday setup interface is shown as in Figure 7-66.

Here you can check the box here to enable this function and then set.

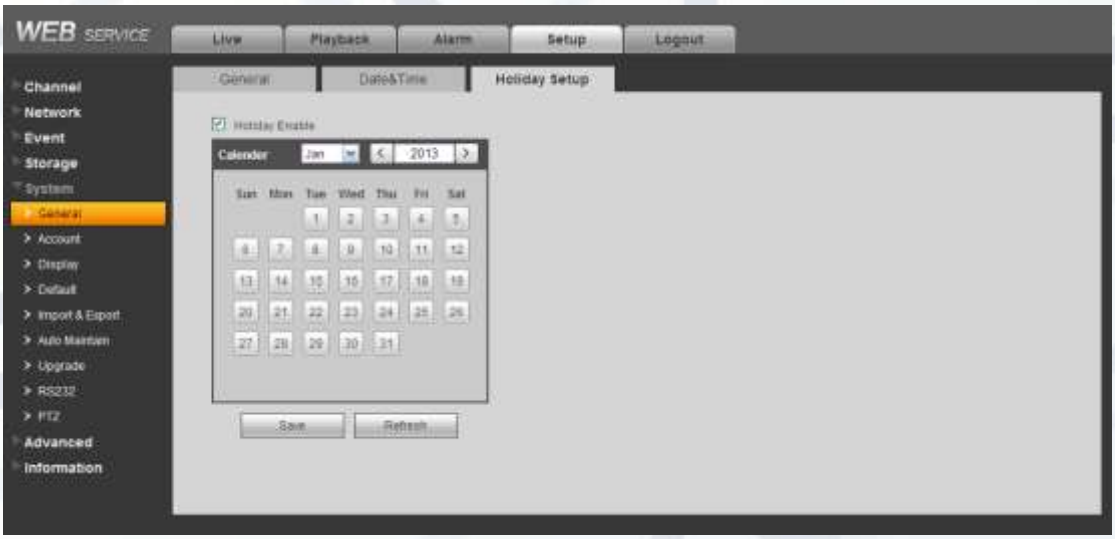

Figure 7-66

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- **Account**

Note:

- For the character in the following user name or the user group name, system supports a maximum of 6-digits. The space in the front or at the end of the string is null. The valid string includes: character, number, and underline.
- The user amount is 20 and the group amount is 8 when the device is shipped out of the factory. The factory default setup includes two levels: user and admin. You can set the corresponding group and then set the rights for the respective user in the specified groups.
- User management adopts group/user modes. The user name and the group name shall be unique. One user shall be included in only one group.

- **Account: User name**

In this interface you can add/remove user and modify user name. See Figure 7-67.

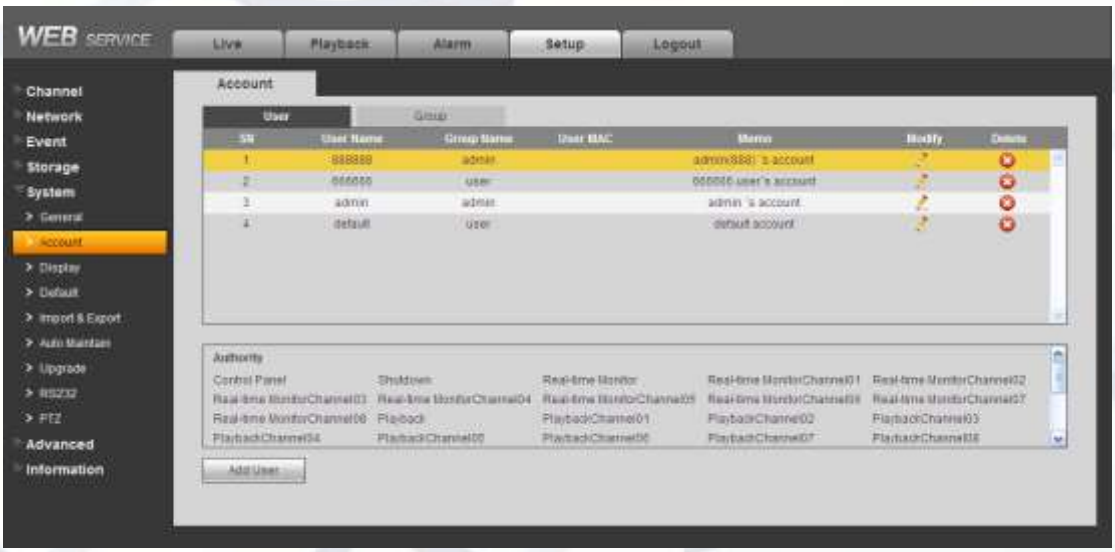

Figure 7-67

Add user: It is to add a name to group and set the user rights. See Figure 7-68. There are four default users: admin/888888/666666 and hidden user “default”. Except user 6666, other users have administrator right. The user 666666 can only have the monitor rights,.

Hidden user “default” is for system interior use only and can not be deleted. When there is no login user, hidden user “default” automatically login. You can set some rights such as monitor for this user so that you can view some channel view without login.

Here you can input the user name and password and then select one group for current user. Please note the user rights shall not exceed the group right setup.

For convenient setup, please make sure the general user has the lower rights setup than the admin.

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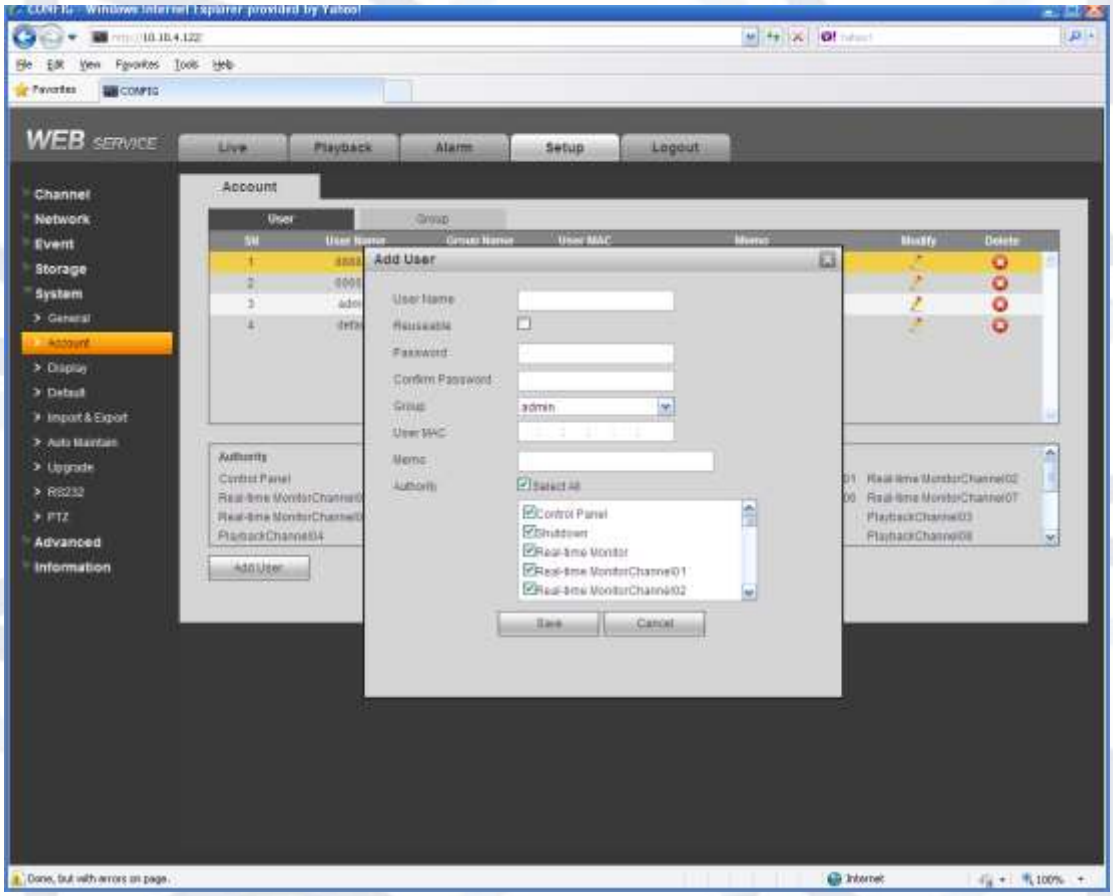

Figure 7-68

Modify user

It is to modify the user property, belonging group, password and rights. See Figure 7-69.

Modify password

It is to modify the user password. You need to input the old password and then input the new password twice to confirm the new setup. Please click the OK button to save.

Please note, the password ranges from 1-digit to 6-digit. It shall include the number only. For the user of the account rights, he can modify the password of other users.

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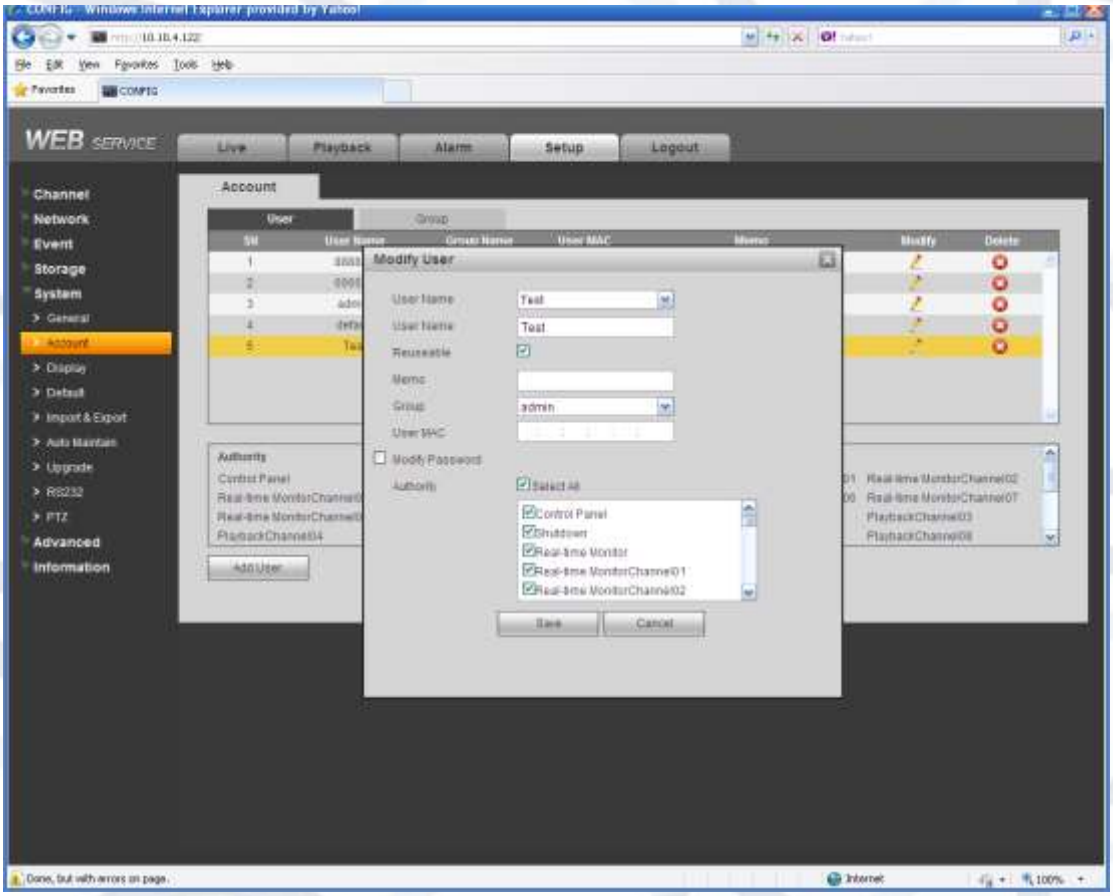

Figure 7-69

- **Account: Group**

The group management interface can add/remove group, modify group password and etc. The interface is shown as in Figure 7-70.

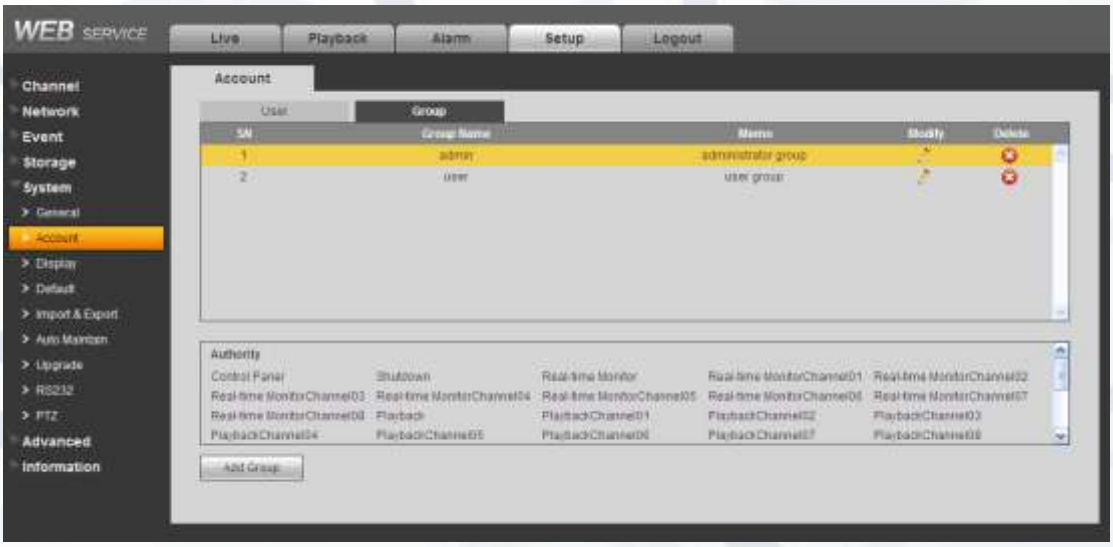

Figure 7-70

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Add group: It is to add group and set its corresponding rights. See Figure 7-71.

Please input the group name and then check the box to select the corresponding rights. It includes: shutdown/reboot device, live view, record control, PTZ control and etc.

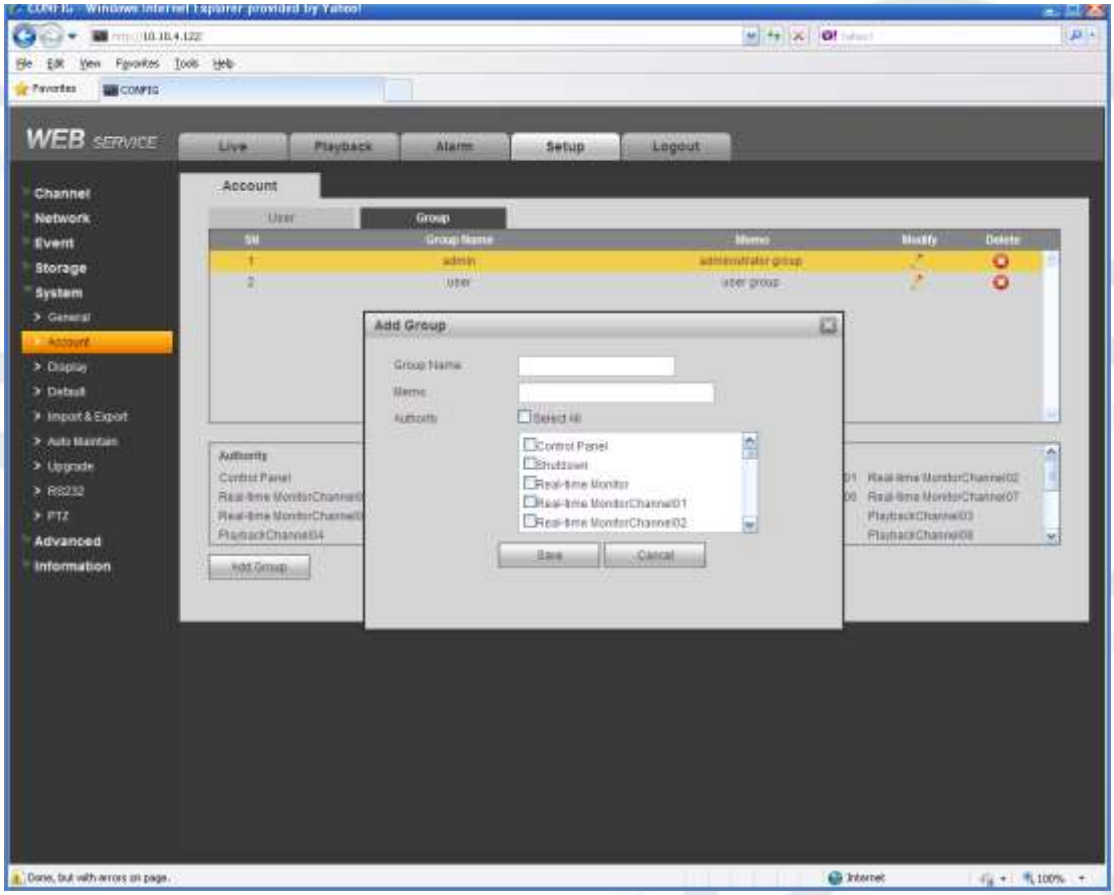

Figure 7-71

Modify group

Click the modify group button, you can see an interface is shown as in Figure 7-72.

Here you can modify group information such as remarks and rights.

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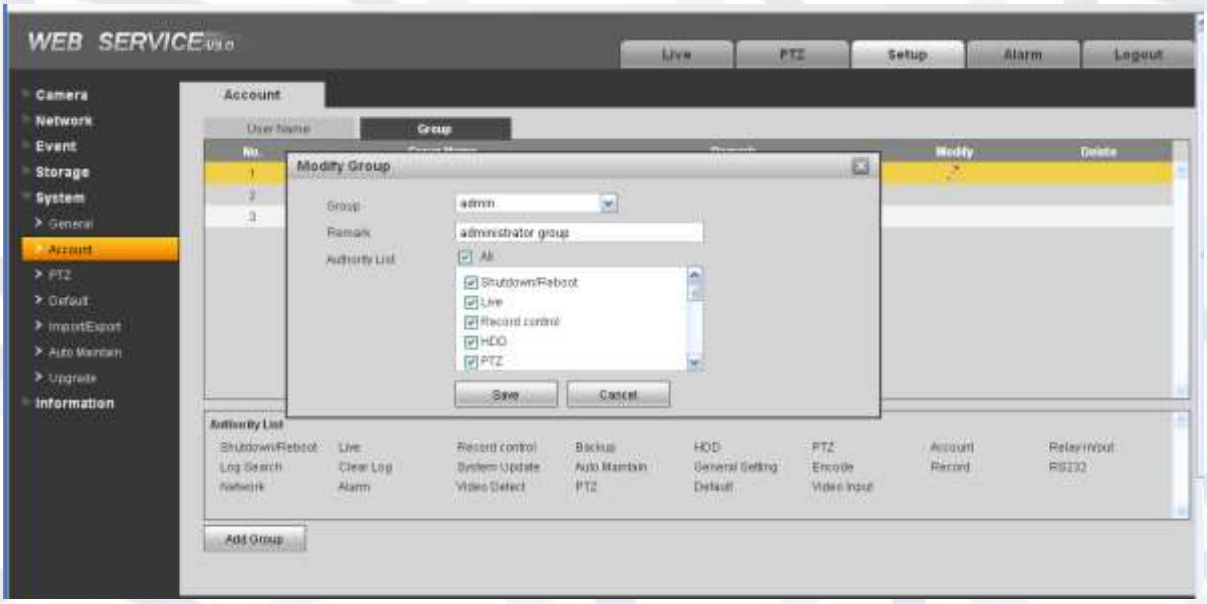

Figure 7-72

- **Display: GUI**

Display interface includes GUI, TV adjust, Tour and video matrix.

Here you can set background color and transparency level. See Figure 7-73.

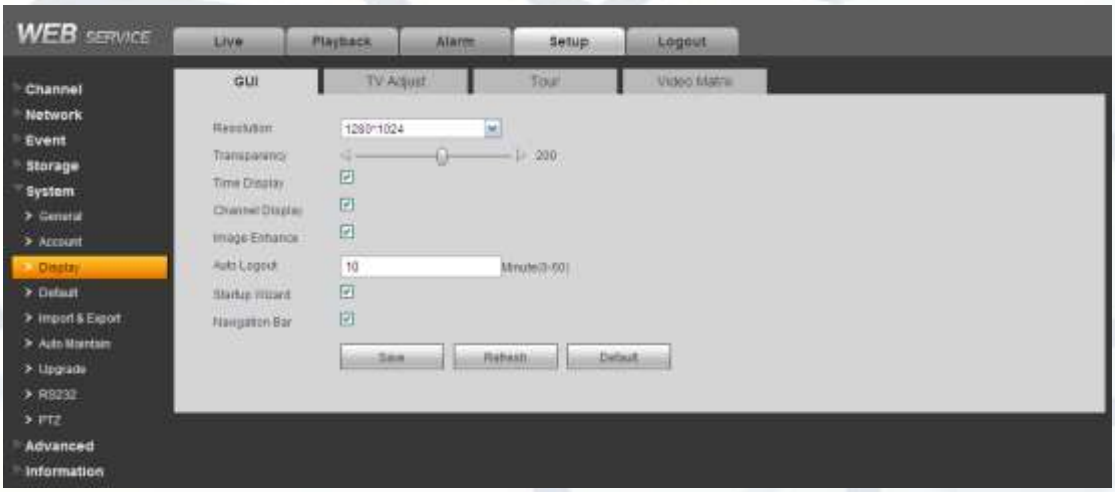

Figure 7-73

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Please refer to the following sheet for detailed information:

Parameter	Function
Resolution	There are four options: 1280×1024(default),1280×720,1024×768,800×600. Please note the system needs to reboot to activate current setup.
Transparency	Here is for you to adjust transparency. The value ranges from 128 to 255.
Time title/channel title	Check the box here, you can view system time and channel number on the monitor video.
Image enhance	Check the box; you can optimize the margin of the preview video.

- **Display: TV Adjust**

It is to set TV output region. See Figure 7-74.

Figure 7-74

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- **Display: Tour**

The tour interface is shown as in Figure 7-75. Here you can set tour interval, split mode, motion detect tour and alarm tour mode.

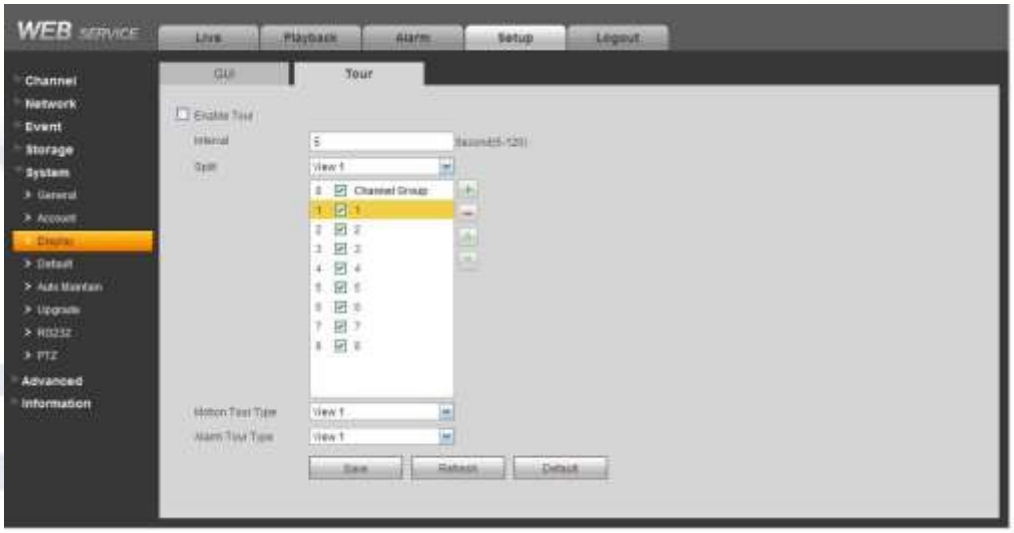

Figure 7-75

Please refer to the following sheet for detailed information:

Parameter	Function
Enable tour	Check the box here to enable tour function.
Interval	Here is for you to adjust transparency. The value ranges from 5 to 120s. The default setup is 5s.
Split	Here you can set window mode and channel group. System can support 1/4/8/9/16/25/36-window according to device channel amount.
Motion tour/Alarm tour	Here you can set motion detect tour/alarm tour window mode. System supports 1/8-window now.

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- **Display: Video Matrix**

The video matrix interface is shown as in Figure 7-76.

Here you can set video matrix output channel and interval. It supports 1/4/9/16 spot tour.

Figure 7-76

- **Default**

The default setup interface is shown as in Figure 7-77.

Here you can select Channel/Network/Event/Storage/System. Or you can check the All box to select all items.

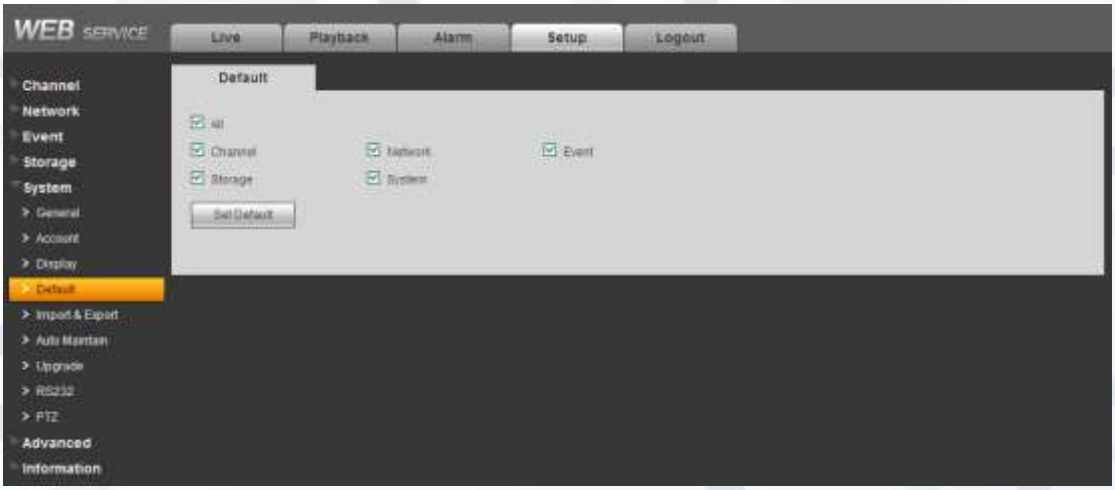

Figure 7-77

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- **Import/Export**

The interface is shown as in Figure 7-78.

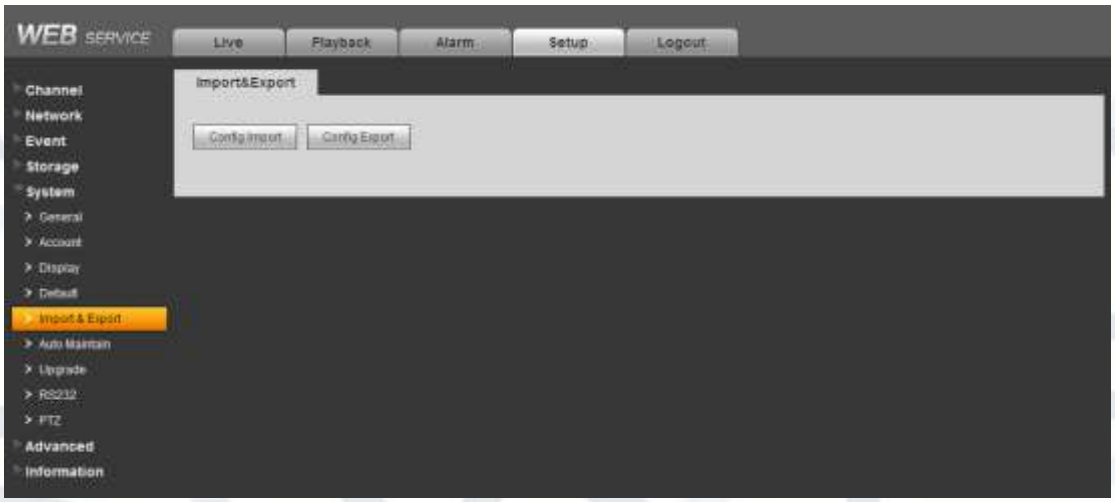

Figure 7-78

Please refer to the following sheet for detailed information.

Parameter	Function
Import	It is to import the local setup files to the system.
Export	It is to export the corresponding WEB setup to your local PC.

- **Auto maintenance**

The auto maintenance interface is shown as in Figure 7-79.

Here you can select auto reboot and auto delete old files interval from the dropdown list.
If you want to use the auto delete old files function, you need to set the file period.

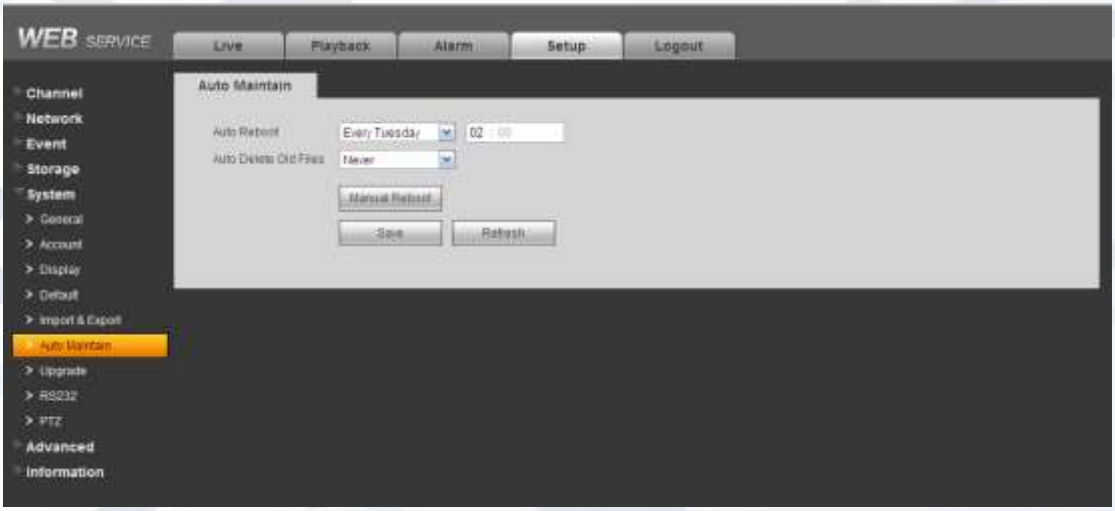

Figure 7-79

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- **Upgrade**

The upgrade interface is shown as in Figure 7-80.

Please select the upgrade file and then click the update button to begin update. Please note the file name shall be as *.bin. During the upgrade process, do not unplug the power cable, network cable, or shutdown the device.

Important: Improper upgrade program may result in device malfunction!

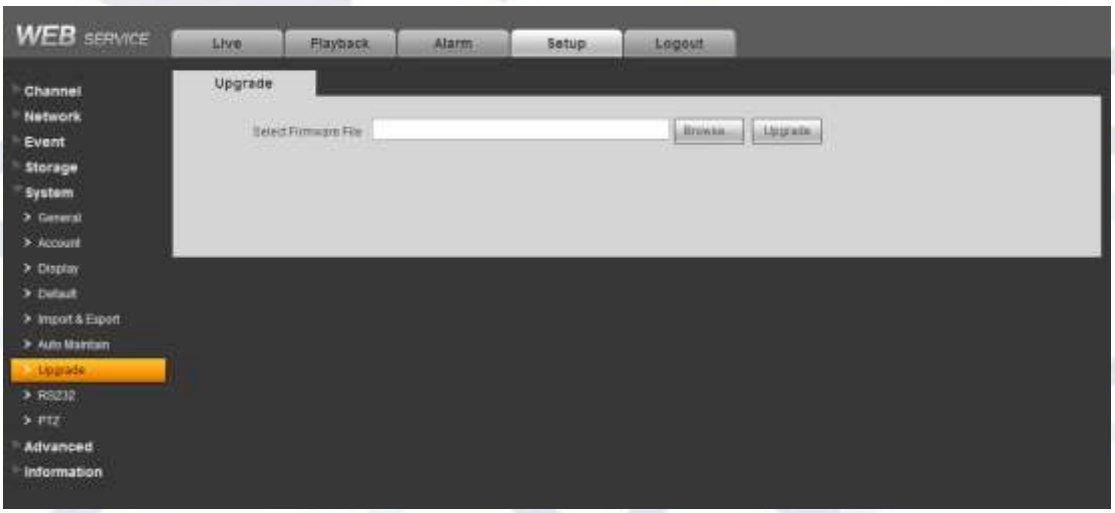

Figure 7-80

- **RS232**

The RS232 interface is shown as in Figure 7-81.

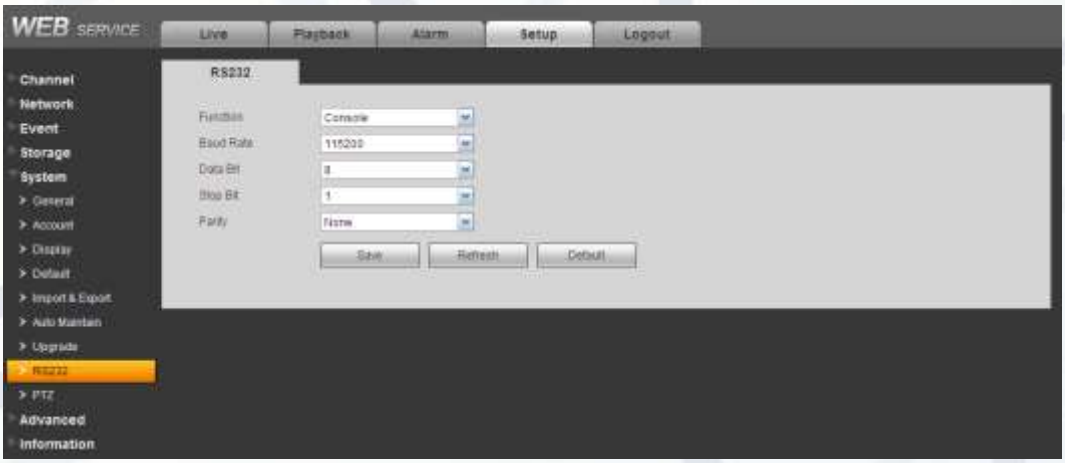

Figure 7-81

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Please refer to the following sheet for detailed information:

Parameter	Function
Protocol	Select the corresponding dome protocol. Default setup is console.
Baud Rate	Select the baud rate. Default setup is 115200.
Data Bit	The value ranges from 5 to 8. Default setup is 8.
Stop bit	There are two options: 1/2. Default setup is 1.
Parity	There are five options: none/odd/even/space/mark. Default setup is none.

- **PTZ**

The PTZ interface is shown as in Figure 7-82.

Before setup, please check the following connections are right:

- PTZ and decoder connection is right. Decoder address setup is right.
- Decoder A (B) line connects with DVR A (B) line.

Click Save button after you complete setup, you can go back to the monitor interface to control speed dome.

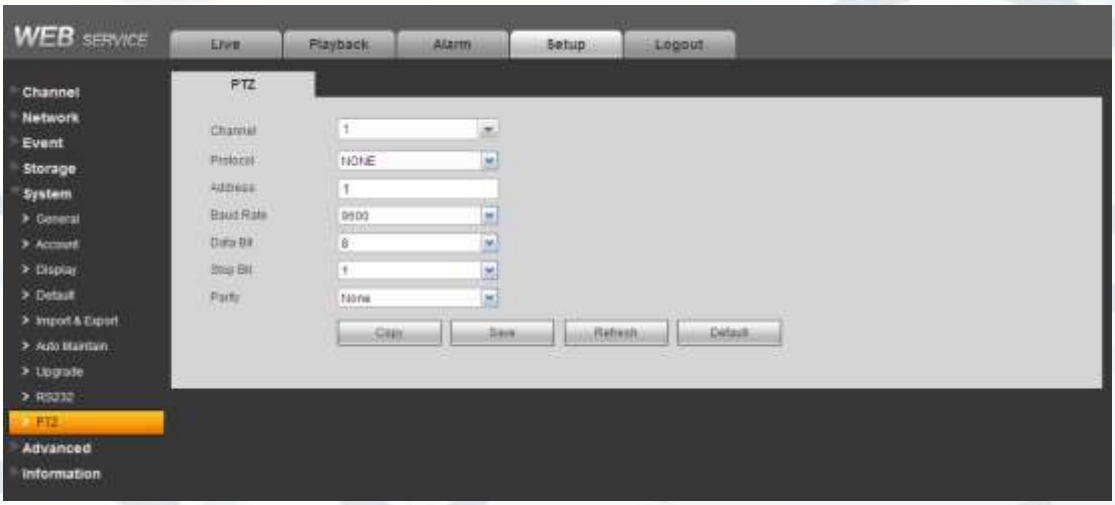

Figure 7-82

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Please refer to the following sheet for detailed information:

Parameter	Function
Channel	Select speed dome connected channel.
Protocol	Select the corresponding dome protocol such as PELCOD..
Address	Set corresponding dome address. Default value is 1. **Please note your setup here shall comply with your dome address; otherwise you can not control the speed dome.**
Baud Rate	Select the dome baud rate. Default setup is 9600.
Data Bit	Default setup is 8. Please set according to the speed dome dial switch setup.
Stop bit	Default setup is 1. Please set according to the speed dome dial switch setup.
Parity	Default setup is none. Please set according to the speed dome dial switch setup.

7.8.7 Advanced

- **Text Overlay**

The card overlay function is for financial areas. It includes Sniffer, information analysis and title overlay function. The Sniffer mode includes COM and network.

- **Text Overlay: COM Type**

The COM interface is shown as below. See Figure 7-83.

- **Protocol:** Please select from the dropdown list.
- **Setting:** Click COM setting button, the interface is shown as in RS232 interface. Please refer to Chapter 0.0.0 □ RS232.
- **Overlay channel:** Please select the channel you want to overlay the card number.
- **Overlay mode:** There are two options: preview and encode. Preview means overlay the card number in the local monitor video. Encode means overlay the card number in the record file.
- **Overlay Position:** Here you can select the proper overlay position from the dropdown list.

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Figure 7-83

- **Text Overlay: Network Type**

The network type interface is shown as below. See Figure 7-84.

Here we take the ATM/POS protocol to continue.

There are two types: with or without the protocol according to client's requirements.

With the protocol:
For ATM/POS with the protocol, you just need to set the source IP, destination IP (sometimes you need to input corresponding port number).

Figure 7-84

Without the protocol:
For the ATM/POS without the protocol, the interface is shown as in Figure 7-85.

Source IP refers to host IP address that sends out information (usually it is the device host.)
Destination IP refers to other systems that receive information.

Usually you do not need to set source port and target port.

There are total four group IP. The record channel applies to one group (optional) only.
Six frame ID groups verification can guarantee information validity and legal.

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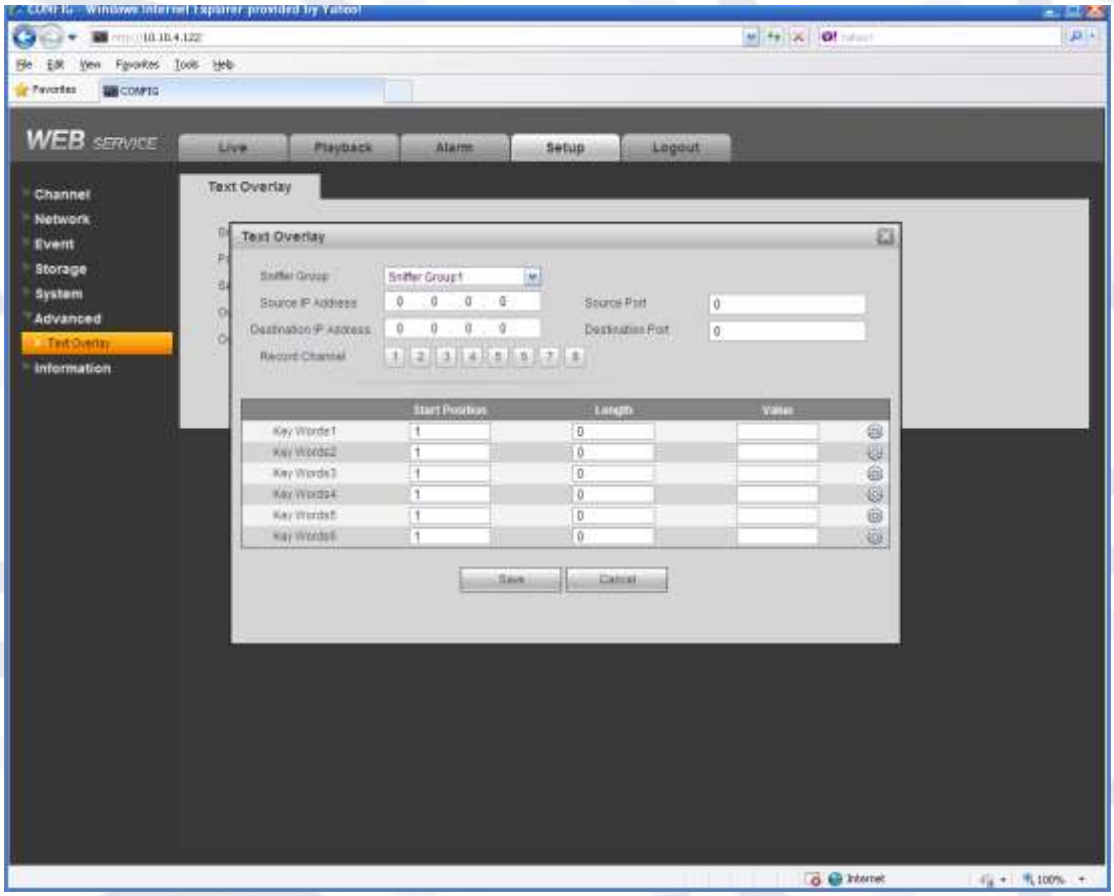

Figure 7-85

Click Data button you can set offset value, length, title according to your communication protocol and data package.

7.8.8 Information

- **Version**

The version interface is shown as in Figure 7-86.

Here you can view system hardware features, software version, release date and etc. Please note the following information is for reference only.

Figure 7-86

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- **Log**

Here you can view system log. See Figure 7-87.

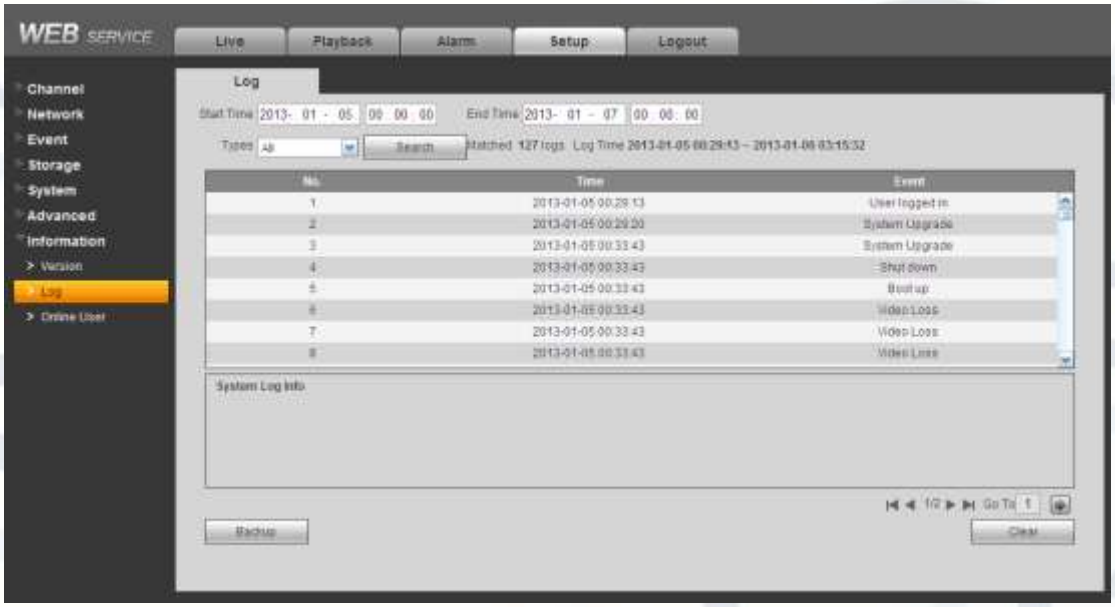

Figure 7-87

Please refer to the following sheet for log parameter information:

Parameter	Function
Type	Log types include: system operation, configuration operation, data operation, event operation, record operation, user management, log clear.
Start time	Set the start time of the requested log.
End time	Set the end time of the requested log.
Search	You can select log type from the drop down list and then click search button to view the list. You can click the stop button to terminate current search operation.
Detailed information	You can select one item to view the detailed information.
Clear	You can click this button to delete all displayed log files. Please note system does not support clear by type.
Backup	You can click this button to backup log files to current PC.

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- **Online User**

The online user interface is shown as in Figure 7-88.

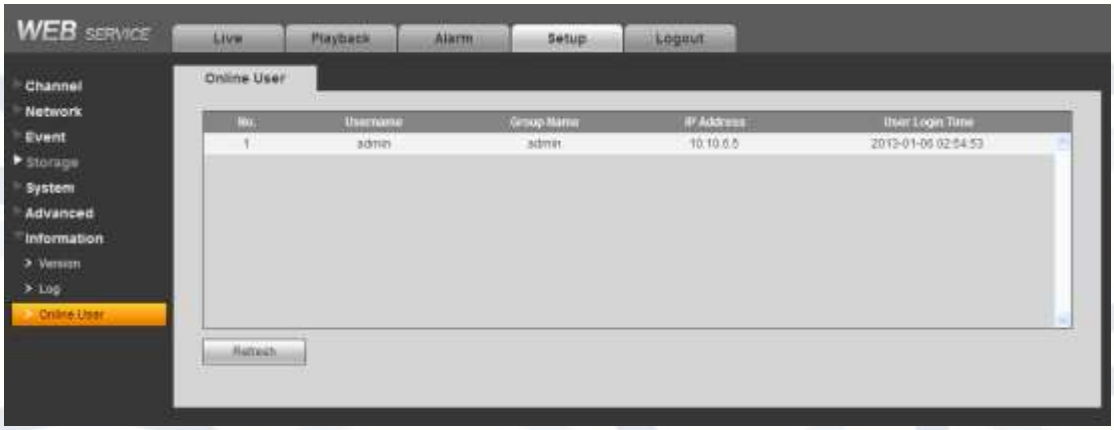

Figure 7-88

7.9 Search

Click search button, you can see an interface is shown as in Figure 7-89. Please set record type, record date, window display mode and channel name.

You can click the date on the right pane to select the date. The green highlighted date is system current date and the blue highlighted date means it has record files.

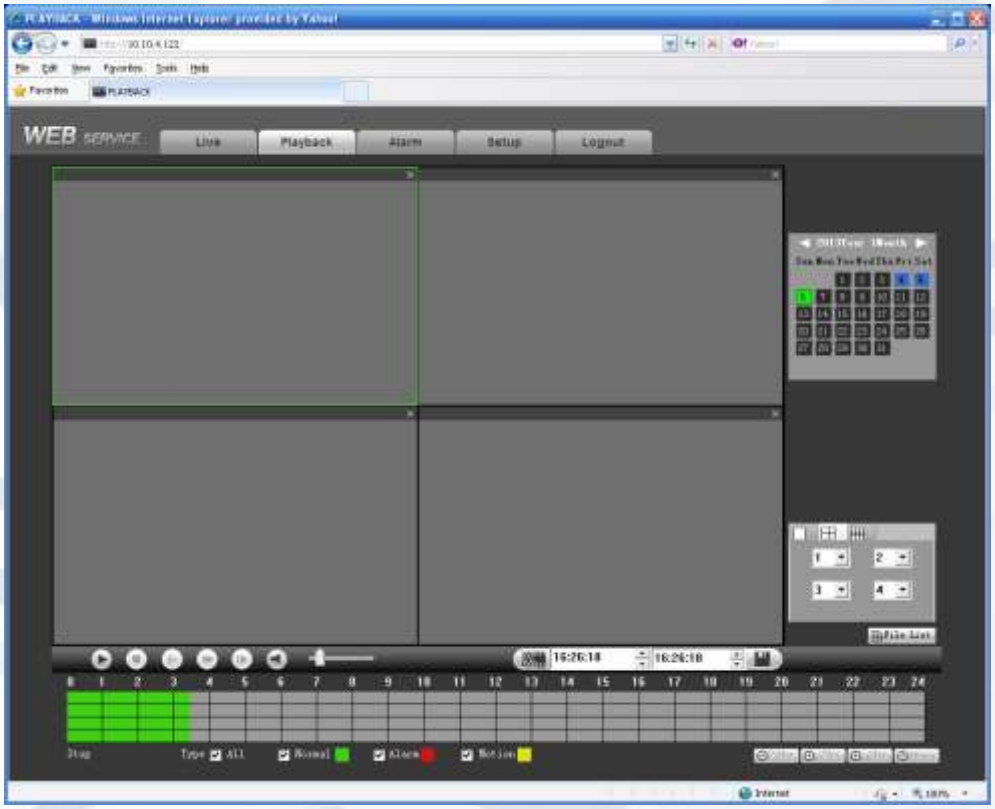

Figure 7-89

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Then please click search button, you can see the corresponding files in the list. See Figure 7-90.

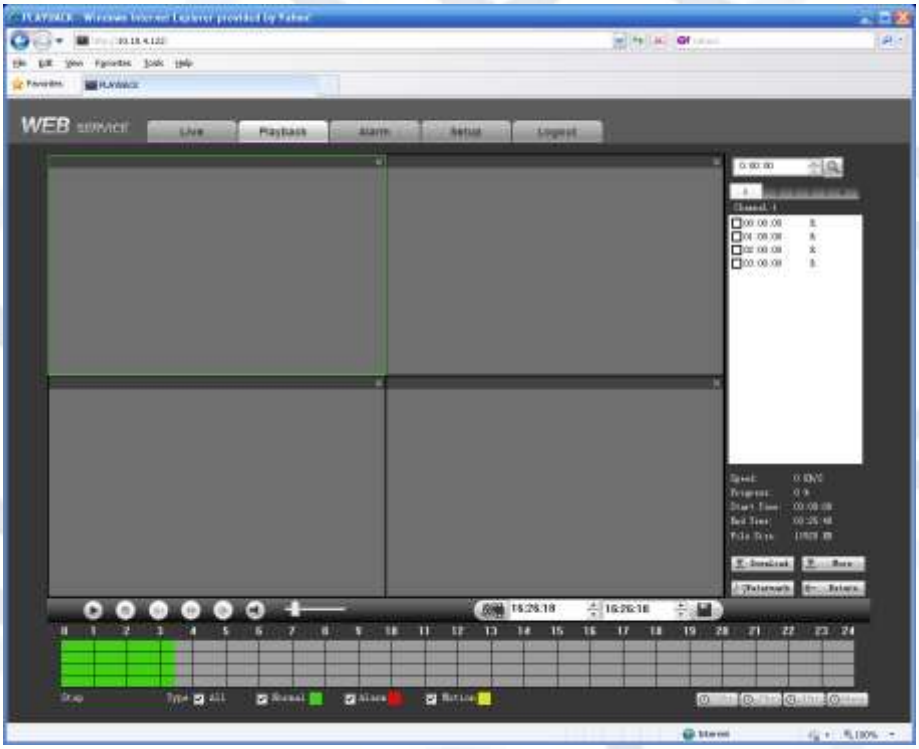

Figure 7-90

Select a file you want to play and then click Play button, system can begin playback. You can select to playback in full-screen. Please note for one channel, system can not playback and download at the same time. The record is automatically saved at the Download folder of the installation directory. Or you can download it to your specified directory. You can use the playback control bar to implement various operations such as play, pause, stop, slow play, fast play and etc. You can view playback channel and device IP during the playback process.

Select the file(s) you want to download and then click download button, system pops up a dialogue box shown as in Figure 7-91, then you can specify file name and path to download the file(s) to your local pc.

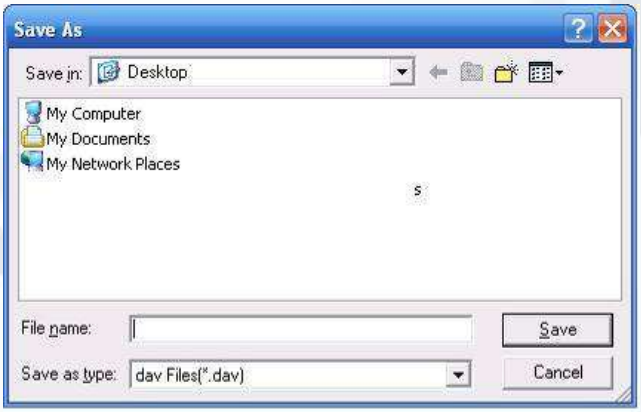

Figure 7-91

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Load more

It is for you to search record or picture. You can select record channel, record type and record time to download. See Figure 7-92.

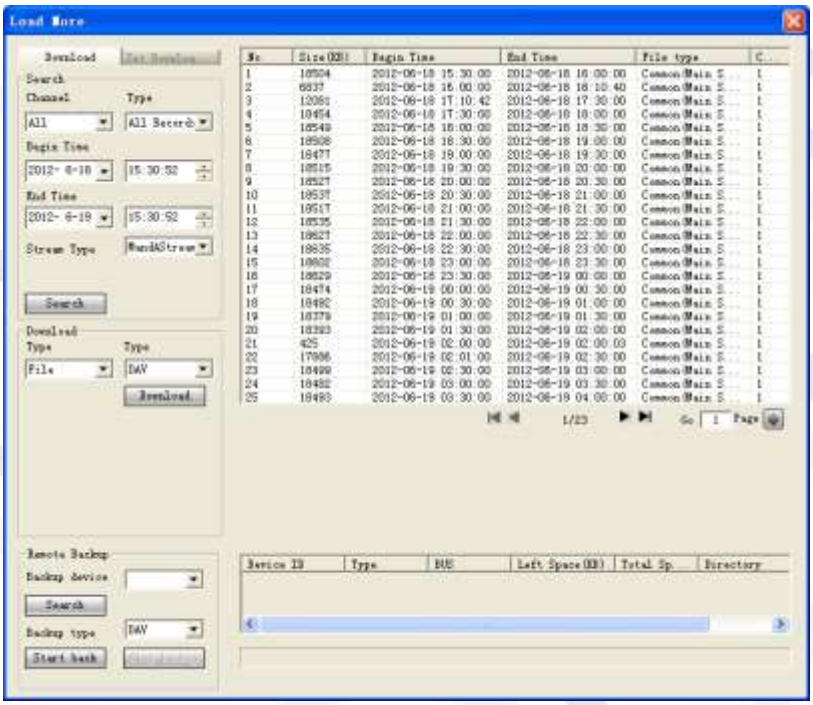

Figure 7-92

Remote backup:

In Figure 7-92, there is a remote back pane at the left bottom of the pane. It allows you to backup the record or picture to your local USB storage media via the Web remotely. Click the search button; you can view the available storage device. See Figure 7-93. Please select file(s) from the list and then Click Start backup button. Please refer to chapter 0.0.0 □ to set device download path.

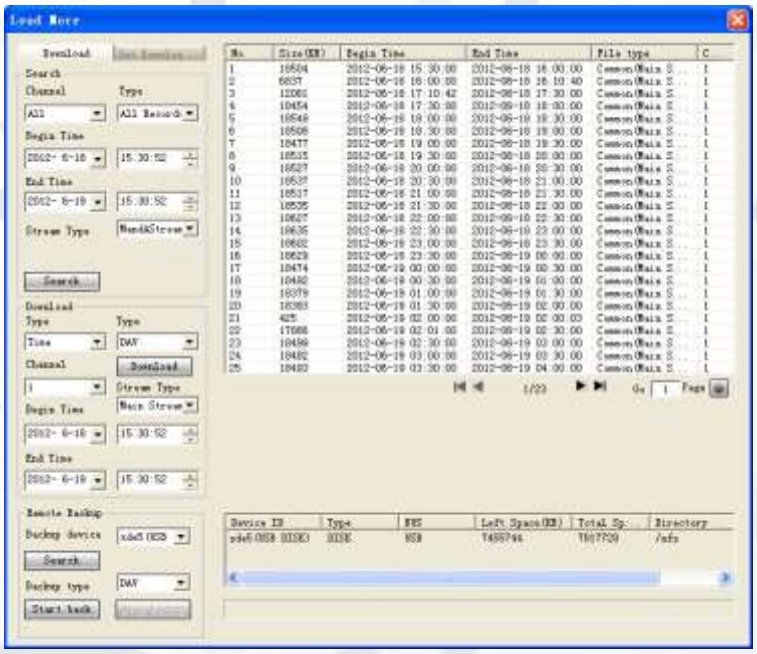

Figure 7-93

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Now you can see system begins to backup and the Stop backup button becomes valid. You can click it to terminate current operation.

At the bottom of the interface, there is a process bar for your reference.

7.10 Alarm

Click alarm function, you can see an interface is shown as Figure 7-94. Here you can set device alarm type and alarm sound setup.

Figure 7-94

Please refer to the following sheet for detailed information:

(Please make sure current device can upload the alarm)

Type	Parameter	Function
Alarm Type	Video loss	System alarms when video loss occurs.
	Motion detection	System alarms when motion detection alarm occurs.
	Camera masking	System alarms when camera is viciously masking.
	Disk full	System alarms when disk is full.
	Disk error	System alarms when disk error occurs.
	External alarm	Alarm input device sends out alarm.
Operation	Prompt	Check the box here, system can automatically pops up an alarm icon on the Alarm button in the main interface when there is an alarm.
Alarm Sound	Play alarm sound	System sends out alarm sound when an alarm occurs. You can specify as you wish.
	Sound path	Here you can specify alarm sound file.

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7.11 Log out

Click log out button, system goes back to log in interface. See Figure 7-95.

You need to input user name and password to login again.

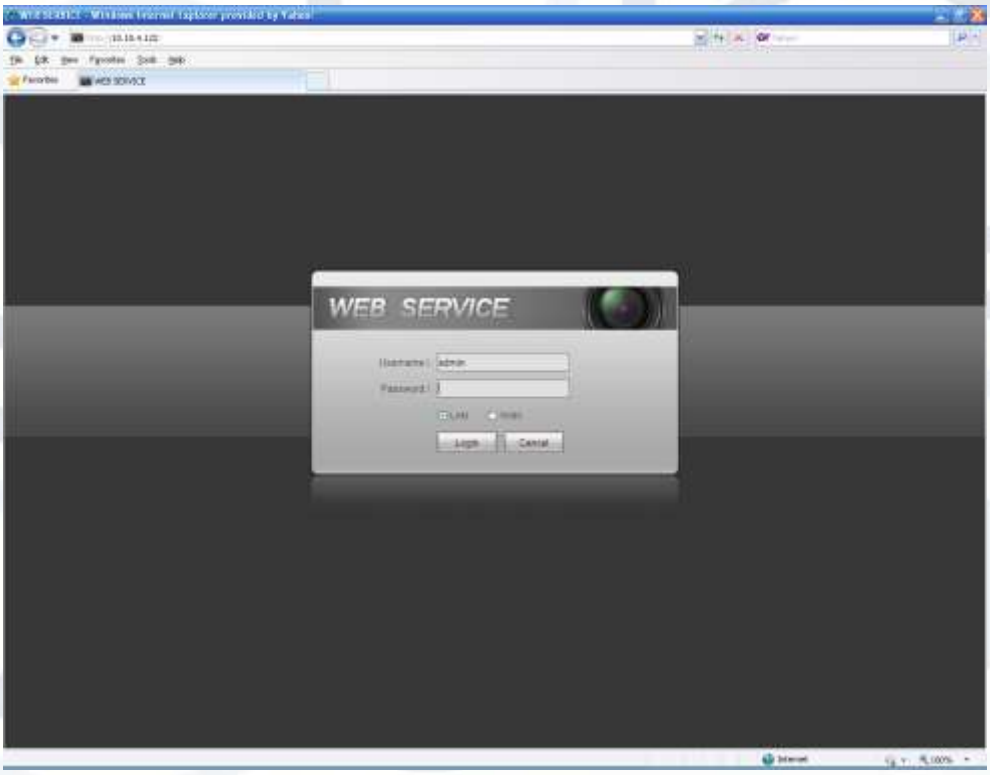

Figure 7-95

7.12 Un-install Web Control

You can use web un-install tool “uninstall web.bat” to un-install web control.

Please note, before you un-installation, please close all web pages, otherwise the un-installation might result in error.

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8 FAQ

1. DVR cannot boot up properly.

These are the possiblilities:

- Input power is not correct.
- Power connection is not correct.
- Power switch button is damaged.
- Program upgrade is wrong.
- HDD malfunction or something wrong with HDD ribbon.
- Seagate DB35.1，DB35.2，SV35 or Maxtor 17-g has compatibility problem. Please upgrade to the latest version to solve this problem.
- Front panel error.
- Main board is damaged.

2. DVR often automatically shuts down or stops running.

These are the possiblilities:

- Input voltage is not stable or it is too low.
- HDD malfunction or something wrong wit the ribbon.
- Button power is not enough.
- Front video signal is not stable.
- Working environment is too harsh, too much dust.
- Hardware malfunction.

3. System can not detect hard disk.

These are the possiblilities:

- HDD is broken.
- HDD ribbon is damaged.
- HDD cable connection is loose.
- Main board SATA port is broken.

4. There is no video output whether it is one-channel, multiple-channel or all-channel output.

These are the possiblilities:

- Program is not compatible. Please upgrade to the latest version.
- Brightness is set to 0. Please restore factory default setup.
- There is no video input signal or it is too weak.
- Check privacy mask setup or your screen saver.
- DVR hardware malfunctions.

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5. Real-time video color is distorted.

These are the possiblilities:

- When using BNC output, NTSC and PAL setup is not correct. The real-time video becomes black and white.
- DVR and monitor resistance is not compatible.
- Video transmission is too long or degrading is too huge.
- DVR color or brightness setup is not correct.

6. Can not search local records.

These are the possiblilities:

- HDD ribbon is damaged.
- HDD is broken.
- Upgraded program is not compatible.
- The recorded file has been overwritten.
- Record function has been disabled.

7. Video is distorted when searching local records.

These are the possiblilities:

- Video quality setup is too low.
- Program read error, bit data is too small. There is mosaic in the full screen. Please restart the DVR to solve this problem.
- HDD data ribbon error.
- HDD malfunction.
- DVR hardware malfunctions.

8. There is no audio when monitor.

These are the possiblilities:

- It is not a power picker.
- It is not a power acoustics.
- Audio cable is damaged.
- DVR hardware malfunctions.

9. There is audio when monitor but there is no audio when system playback.

These are the possiblilities:

- Setup is not correct. Please enable audio function
- Corresponding channel has no video input. Playback is not continuous when the screen is blue.

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10. Time display is not correct.

These are the possiblilities:

- Setup is not correct
- Battery contact is not correct or voltage is too low.
- Crystal is broken.

11. DVR can not control PTZ.

These are the possiblilities:

- Front panel PTZ error
- PTZ decoder setup, connection or installation is not correct.
- Cable connection is not correct.
- PTZ setup is not correct.
- PTZ decoder and DVR protocol is not compatible.
- PTZ decoder and DVR address is not compatible.
- When there are several decoders, please add 120 Ohm between the PTZ decoder A/B cables furthest end to delete the reverberation or impedance matching. Otherwise the PTZ control is not stable.
- The distance is too far.

12. Motion detection function does not work.

These are the possiblilities:

- Period setup is not correct.
- Motion detection zone setup is not correct.
- Sensitivity is too low.
- For some versions, there is hardware limit.

13. Can not log in client-end or web.

These are the possiblilities:

- For Windows 98 or Windows ME user, please update your system to Windows 2000 sp4. Or you can install client-end software of lower version. Please note right now, our DVR is not compatible with Windows VISTA control.
- ActiveX control has been disabled.
- No dx8.1 or higher. Please upgrade display card driver.
- Network connection error.
- Network setup error.
- Password or user name is invalid.
- Client-end is not compatible with DVR program.

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14. There is only mosaic no video when preview or playback video file remotely.

These are the possiblilities:

- Network fluency is not good.
- Client-end resources are limit.
- There is multiple-cast group setup in DVR. This mode can result in mosaic. Usually we do not recommend this mode.
- There is privacy mask or channel protection setup.
- Current user has no right to monitor.
- DVR local video output quality is not good.

15. Network connection is not stable.

These are the possiblilities:

- Network is not stable.
- IP address conflict.
- MAC address conflict.
- PC or DVR network card is not good.

16. Burn error /USB back error.

These are the possiblilities:

- Burner and DVR are in the same data cable.
- System uses too much CPU resources. Please stop record first and then begin backup.
- Data amount exceeds backup device capacity. It may result in burner error.
- Backup device is not compatible.
- Backup device is damaged.

17. Keyboard can not control DVR.

These are the possiblilities:

- DVR serial port setup is not correct
- Address is not correct
- When there are several switchers, power supply is not enough.
- Transmission distance is too far.

18. Alarm signal can not been disarmed.

These are the possiblilities:

- Alarm setup is not correct.
- Alarm output has been opened manually.
- Input device error or connection is not correct.
- Some program versions may have this problem. Please upgrade your system.

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19. Alarm function is null.

These are the possiblilities:

- Alarm setup is not correct.
- Alarm cable connection is not correct.
- Alarm input signal is not correct.
- There are two loops connect to one alarm device.

20. Record storage period is not enough.

These are the possiblilities:

- Camera quality is too low. Lens is dirty. Camera is installed against the light. Camera aperture setup is not correct.
- HDD capacity is not enough.
- HDD is damaged.

21. Can not playback the downloaded file.

These are the possiblilities:

- There is no media player.
- No DXB8.1 or higher graphic acceleration software.
- There is no DivX503Bundle.exe control when you play the file transformed to AVI via media player.
- No DivX503Bundle.exe or ffdshow-2004 1012 .exe in Windows XP OS.

22. Forgot local menu operation password or network password

Please contact your local service engineer or our sales person for help. We can guide you to solve this problem.

23. For the HD-SDI 1080P 1.5U and 2U series product, system loses frames when recording local file or when the playback is not smooth enough.

These are the possiblilities:

- Close extra stream record function.
- Close snapshot function.
- Reduce monitor channel amount of the WEB.
- Close FTP upload function.

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Daily Maintenance

- Please use the brush to clean the board, socket connector and the chassis regularly.
- The device should be soundly earthed in case there is audio/video disturbance. Keep the device away from the static voltage or induced voltage.
- Please unplug the power cable before you remove the audio/video signal cable, RS232 or RS485 cable.
- Do not connect the TV to the local video output port (VOUT).It may result in video output circuit.
- Always shut down the device properly. Please use the shutdown function in the menu, or you can press the power button in the rear pane for at least three seconds to shut down the device. Otherwise it may result in HDD malfunction.
- Please make sure the device is away from the direct sunlight or other heating sources. Please keep the sound ventilation.
- Please check and maintain the device regularly.

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For more information about our DVRs and available cameras & accessories, please visit our website:

www.adata.co.uk

Alternatively scan this QR code with your smart phone to be directed instantly to our website:

Download our mobile apps to remotely operate your DVR on the move:

iAPOLLO APP

iPhone

iAPOLLO Pro APP

iPad

iAPOLLO APP

Android

iAPOLLO Pro APP

Android Tablet

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